MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-1 Clear
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
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<tr>
<td></td>
<td></td>
<td>PEL</td>
<td>TLV</td>
<td></td>
</tr>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>2</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
<td>0.025</td>
<td>NA</td>
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<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>5</td>
<td>10</td>
<td>NA</td>
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</tbody>
</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic...
kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

**Calcium Carbonate**
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hypercalcemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

---

**SECTION 4 - FIRST-AID MEASURES**

- **Inhalation** - Remove from exposure.
- **Dermal** - Wash skin with soap and water.
- **Eye** - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
- **Ingestion** - Do not induce vomiting, contact a physician.

---

**SECTION 5 - FIRE-FIGHTING MEASURES**

- **Special Fire-Fighting Procedure** - None
- **Unusual Fire or Explosion Hazards** - None
- **Extinguishing Media** - None
- **Hazardous Combustion Products** - Unknown

---

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Explosive Properties - N/A

Odor and Odor Threshold - N/A

Partition Coefficient - N/A

pH - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Solubility in Water - No

Vapor Pressure - N/A

Percent Volatile - N/A

Vapor Density - N/A

Applicable Evaporation Rate - N/A

Melting/Softening Point - None

Freezing Point - N/A

Specific Gravity - N/A

Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available
**SECTION 15 - REGULATORY INFORMATION**

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

**SECTION 16 - OTHER INFORMATION**

Conforms to D 4236

No other specific information available
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-2 Mauve Red
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³%Silica+2 0.025</td>
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<tr>
<td>Calcium Carbonate</td>
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<td>Pigments</td>
<td>Varies</td>
<td>NA NA</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Talc (non asbestiform)
Fibrotic pneumoconiosis; irritation eyes.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None
Extinguishing Media - None

Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Partition Coefficient - N/A

Explosive Properties - N/A

pH - N/A

Odor and Odor Threshold - N/A

Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-3 Purple
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
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<tbody>
<tr>
<td>Clay/Kaolin</td>
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<td>15</td>
<td>2</td>
<td>NA</td>
</tr>
<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
<td>0.025</td>
<td>NA</td>
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<td>1317-65-3</td>
<td>5</td>
<td>10</td>
<td>NA</td>
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<tr>
<td>Talc</td>
<td>14807-96-6</td>
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<td>.05</td>
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</tr>
<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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</tbody>
</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hypercalcaemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Talc (non asbestiform)
Fibrotic pneumoconiosis; irritation eyes.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

**SECTION 7 - HANDLING AND STORAGE**

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

**SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance - Powder

Explosive Properties - N/A

Odor and Odor Threshold - N/A

Partition Coefficient - N/A

pH - N/A

Oxidizing Properties - N/A
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-4 Fool’s Gold
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
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<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15 2</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³ 0.025 %Silica+2</td>
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<td>NA</td>
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<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>5 10</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

**Calcium Carbonate**  
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

**Pigments (Stains)**  
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

**SECTION 4 - FIRST-AID MEASURES**

**Inhalation** - Remove from exposure.

**Dermal** - Wash skin with soap and water.

**Eye** - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

**Ingestion** - Do not induce vomiting, contact a physician.

**SECTION 5 - FIRE-FIGHTING MEASURES**

**Special Fire-Fighting Procedure** - None

**Unusual Fire or Explosion Hazards** - None

**Extinguishing Media** - None

**Hazardous Combustion Products** - Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder       pH - N/A
Explosive Properties - N/A     Oxidizing Properties - N/A
Odor and Odor Threshold - N/A   Boiling Point - N/A
Partition Coefficient - N/A     Solubility in Water - No
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point - None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236
No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-5 Salmon
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)
inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

**Calcium Carbonate**
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

**Pigments (Stains)**
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

**Cadmium**
The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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**SECTION 4 - FIRST-AID MEASURES**

**Inhalation** - Remove from exposure.

**Dermal** - Wash skin with soap and water.

**Eye** - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

**Ingestion** - Do not induce vomiting, contact a physician.
SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant
Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236
No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-6 Orange
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
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</thead>
<tbody>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>2</td>
<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
<td>0.025</td>
<td>NA</td>
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<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>5</td>
<td>10</td>
<td>NA</td>
</tr>
<tr>
<td>Pigments (Contains Cadmium)</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)
inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

**Calcium Carbonate**
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

**Pigments (Stains)**
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

**Cadmium**
The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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**SECTION 4 - FIRST-AID MEASURES**

**Inhalation** - Remove from exposure.

**Dermal** - Wash skin with soap and water.

**Eye** - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

**Ingestion** - Do not induce vomiting, contact a physician.
SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant
Chronic/Other  - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236
No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-7 Aqua
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m^3)</th>
<th>LD50 mg/kg</th>
<th>LC50 mg/m^3</th>
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<tbody>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m^3</td>
<td>0.025</td>
<td>0.025</td>
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<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>5</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products – Unknown
**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

**SECTION 7 - HANDLING AND STORAGE**

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

**SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder</td>
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<tr>
<td>pH</td>
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<tr>
<td>Explosive Properties</td>
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<td>Oxidizing Properties</td>
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<tr>
<td>Odor and Odor Threshold</td>
<td>N/A</td>
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<td>Boiling Point</td>
<td>N/A</td>
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<tr>
<td>Partition Coefficient</td>
<td>N/A</td>
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<tr>
<td>Solubility in Water</td>
<td>No</td>
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</table>
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-8 Royal Blue  
Manufacturer's Name: Minnesota Clay  
Address: 2960 Niagara Lane, Plymouth MN 55447  
Tel Phone: (763) 432-0875  
Emergency Tel: None  
Date Prepared: July 29, 2011  
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
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<td></td>
<td></td>
<td>PEL</td>
<td>TLV</td>
<td></td>
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<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>2</td>
<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
<td>0.025</td>
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<td></td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)  
A single exposure will not result in serious adverse health effects.  
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.  
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder                     pH - N/A
Explosive Properties - N/A              Oxidizing Properties - N/A
Odor and Odor Threshold - N/A           Boiling Point - N/A
Partition Coefficient - N/A             Solubility in Water - No
<table>
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<tr>
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<tr>
<td>Percent Volatile</td>
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<td>Vapor Density</td>
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<tr>
<td>Applicable Evaporation Rate</td>
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<tr>
<td>Melting/Softening Point</td>
<td>None</td>
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<td>Freezing Point</td>
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<td>Specific Gravity</td>
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<td>Flash Point</td>
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<td>Flammable Limits</td>
<td>N/A</td>
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<tr>
<td>Auto-Ignition Temperature</td>
<td>N/A</td>
</tr>
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</table>

**SECTION 10 - STABILITY AND REACTIVITY**

- Stability: Unknown
- Hazardous Polymerization: None
- Hazardous Decomposition Products: None
- Conditions to Avoid: None
- Incompatibility: Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- Hazard to Humans: There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.
- Animal Experiment: There is no toxicity data on this mixture
- Acute: Likely to be a skin and eye irritant
- Chronic/Other: Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-9 Teal
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ (mg/kg)</th>
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<td>14808-60-7</td>
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<td>0.025</td>
<td>NA</td>
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<tr>
<td>Calcium Carbonate</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

**Calcium Carbonate**
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hypercalcaemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

**Pigments (Stains)**
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

---

**SECTION 4 - FIRST-AID MEASURES**

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

---

**SECTION 5 - FIRE-FIGHTING MEASURES**

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products – Unknown
## SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

## SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

## SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<th>Property</th>
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<td>Appearance</td>
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<td>Explosive Properties</td>
<td>N/A</td>
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<td>Oxidizing Properties</td>
<td>N/A</td>
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<td>Odor and Odor Threshold</td>
<td>N/A</td>
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<tr>
<td>Boiling Point</td>
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<tr>
<td>Partition Coefficient</td>
<td>N/A</td>
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<tr>
<td>Solubility in Water</td>
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</table>
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point - None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-10 Robin’s Egg Blue
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
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<tr>
<td></td>
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<td>Pigments</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hypercalcaemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder  pH - N/A
Explosive Properties - N/A  Oxidizing Properties - N/A
Odor and Odor Threshold - N/A  Boiling Point - N/A
Partition Coefficient - N/A  Solubility in Water - No
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point - None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-11 Heavy Rust
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
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<tr>
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<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
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<td>Calcium Carbonate</td>
<td>1317-65-3</td>
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<td>Pigments</td>
<td>Varies</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hypercalcaemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.
Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands
Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation
Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder           pH - N/A
Explosive Properties - N/A     Oxidizing Properties - N/A
Odor and Odor Threshold - N/A  Boiling Point - N/A
Partition Coefficient - N/A    Solubility in Water - No
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<td>Auto-Ignition Temperature</td>
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**SECTION 10 - STABILITY AND REACTIVITY**

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other – Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

No specific information available.
SECTION 13 - DISPOSAL INFORMATION
Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION
No specific information available.

SECTION 15 - REGULATORY INFORMATION
Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION
Conforms to D 4236
No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-12 Black
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
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<td>PEL</td>
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<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>2</td>
<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
<td>0.025</td>
<td>NA</td>
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<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>5</td>
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<td>NA</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder                    pH - N/A
Explosive Properties - N/A              Oxidizing Properties - N/A
Odor and Odor Threshold - N/A           Boiling Point - N/A
Partition Coefficient - N/A             Solubility in Water - No
Vapor Pressure - N/A  
Percent Volatile - N/A  
Vapor Density - N/A  
Applicable Evaporation Rate - N/A  
Melting/Softening Point - None  

Freezing Point - N/A  
Specific Gravity - N/A  
Flash Point - N/A  
Flammable Limits - N/A  
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown  
Hazardous Polymerization - None  
Hazardous Decomposition Products - None  
Conditions to Avoid - None  
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-13 Citrus Burst
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
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<tbody>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15 2</td>
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<td>Silica (Quartz)</td>
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<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>5 10</td>
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<td>Pigments (Contains Cadmium)</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)
inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

Cadmium
The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.
SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.
Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands
Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation
Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant
Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-14 Dragon’s Breath
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

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<td>Calcium Carbonate</td>
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<td>Pigments (Contains Cadmium)</td>
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<td>5 ug/m(3) NA</td>
<td>2330</td>
<td>229.9 4 hour(s)</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)
inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

Cadmium
The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.
SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant
Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G2 Gloss White
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD50 mg/kg</th>
<th>LC50 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PEL</td>
<td>TLV</td>
<td></td>
</tr>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>2</td>
<td>NA</td>
</tr>
<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
<td>0.025</td>
<td>NA</td>
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<tr>
<td></td>
<td></td>
<td>%Silica+2</td>
<td></td>
<td></td>
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<tr>
<td>Zirconium</td>
<td>14940-68-2</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G3 Lemon  
Manufacturer's Name: Minnesota Clay  
Address: 2960 Niagara Lane, Plymouth MN 55447  
Tel Phone: (763) 432-0875  
Emergency Tel: None  
Date Prepared: July 29, 2011  
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
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<th>LC₅₀ (mg/m³)</th>
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<tbody>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15 PEL, 2 TLV</td>
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<tr>
<td>Silica (Quartz)</td>
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<td>10mg/m³ 0.025 %Silica+2</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease.
disease and end-stage renal disease in workers exposed to respirable crystalline silica.

**Pigments (Stains)**
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

**SECTION 4 - FIRST-AID MEASURES**

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

**SECTION 5 - FIRE-FIGHTING MEASURES**

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSOAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A  
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G4 Spearmint
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<thead>
<tr>
<th>INGREDIENTS</th>
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<th>EXPOSURE LIMITS (mg/m³)</th>
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<th>LC₅₀ mg/m³</th>
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<tr>
<td></td>
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<td>PEL 15</td>
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<td>Clay/Kaolin</td>
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<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³ %Silica+2</td>
<td>0.025</td>
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<tr>
<td>Zirconium</td>
<td>14940-68-2</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Powder</td>
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<td>Explosive Properties</td>
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<td>Odor and Odor Threshold</td>
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<td>Flash Point</td>
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Flammable Limits - N/A  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
### MATERIAL SAFETY DATA SHEET

#### SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

**Identity:** G5 Burgundy  
**Manufacturer's Name:** Minnesota Clay  
**Address:** 2960 Niagara Lane, Plymouth MN 55447  
**Tel Phone:** (763) 432-0875  
**Emergency Tel:** None  
**Date Prepared:** July 29, 2011  
**Replaces MSDS dated:** N/A

#### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<td>PEL: 10mg/m³  TLV: 0.025</td>
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#### SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

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Silica, Crystalline (Quartz)  
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Pigments (Stains)
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SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
### SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

### SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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</table>
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute - Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G6 Midnight Black
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSOAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A  
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G7 Grape
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Tin or Tin Compounds
Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel crystals are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder                              pH - N/A
Explosive Properties - N/A                       Oxidizing Properties - N/A
Odor and Odor Threshold - N/A                   Boiling Point - N/A
Partition Coefficient - N/A                      Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G8 Grasshopper
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)
inhaled from occupational sources is classified as carcinogenic to humans. There are
some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Nickel or Nickel Compounds
Nickel dust or fume can cause sensitization dermatitis and may cause cancer of the paranasal sinuses and the lungs. Nickel fumes are respiratory irritants and may cause pneumonitis. Skin contact may cause an allergic skin rash. Material causes eye irritation. Avoid contact with eyes, skin and clothing. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder  
PH - N/A

Explosive Properties - N/A  
Oxidizing Properties - N/A

Odor and Odor Threshold - N/A  
Boiling Point - N/A

Partition Coefficient - N/A  
Solubility in Water - No
Vapor Pressure - N/A  
Percent Volatile - N/A  
Vapor Density - N/A  
Applicable Evaporation Rate - N/A  
Melting/Softening Point - None  
Freezing Point - N/A  
Specific Gravity - N/A  
Flash Point - N/A  
Flammable Limits - N/A  
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown  
Hazardous Polymerization - None  
Hazardous Decomposition Products - None  
Conditions to Avoid - None  
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment  -  There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other  -  Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G9 Dark Forest
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236
No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G10 Turquoise
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
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<td>Silica (Quartz)</td>
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<td>10 mg/m^3</td>
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<td>Zirconium</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Copper or Copper Compounds
Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point - None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G11 Sky Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
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<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
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<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
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<td>Zirconium</td>
<td>14940-68-2</td>
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<td>Pigments</td>
<td>Varies</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G12 Teal
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
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<td>PEL 15</td>
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<td>Silica (Quartz)</td>
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<td>Zirconium</td>
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<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
**SECTION 7 - HANDLING AND STORAGE**

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

**SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Property</th>
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<tbody>
<tr>
<td>Appearance - Powder</td>
<td>Vapor Pressure - N/A</td>
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<tr>
<td>Explosive Properties - N/A</td>
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<td>Odor and Odor Threshold - N/A</td>
<td>Vapor Density - N/A</td>
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<td>pH - N/A</td>
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<td>Oxidizing Properties - N/A</td>
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<td>Specific Gravity - N/A</td>
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<td>Solubility in Water - No</td>
<td>Flash Point - N/A</td>
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</table>
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G13 Georgia Peach
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<td>1332-58-7</td>
<td>15</td>
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<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
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<td>10mg/m³</td>
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<td>Zirconium</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)
inhaled from occupational sources is classified as carcinogenic to humans. There are
some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236
No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G14 Deep Blue Gray Glaze
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<td>0.025</td>
<td>NA</td>
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<td>Zirconium</td>
<td>14940-68-2</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are
some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.
SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant
Chronic/Other  - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G15 It’s a Boy!
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
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<tr>
<td>Silica (Quartz)</td>
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<td>Zirconium</td>
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<td>NA</td>
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<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G16 Hershey Bar Brown
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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Pigments (Stains)
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SECTION 4 - FIRST-AID MEASURES

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Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder  Vapor Pressure - N/A
Explosive Properties - N/A  Percent Volatile - N/A
Odor and Odor Threshold - N/A  Vapor Density - N/A
Partition Coefficient - N/A  Applicable Evaporation Rate - N/A
pH - N/A  Melting/Softening Point - None
Oxidizing Properties - N/A  Freezing Point - N/A
Boiling Point - N/A  Specific Gravity - N/A
Solubility in Water - No  Flash Point - N/A
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G17 Red Brown
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 5547
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<td>NA</td>
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<td>Silica (Quartz)</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
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SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<td>Flash Point</td>
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Flammable Limits - N/A  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-1 Soft White
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Talc (non asbestos-form)
Fibrotic pneumoconiosis; irritation eyes.

Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Explosive Properties - N/A

Odor and Odor Threshold - N/A

Partition Coefficient - N/A

pH - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Solubility in Water - No
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point - None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-2 Dark Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

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Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None
Extinguishing Media - None

Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Partition Coefficient - N/A

Explosive Properties - N/A

pH - N/A

Odor and Odor Threshold - N/A

Oxidizing Properties - N/A
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<td>Auto-Ignition Temperature</td>
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**SECTION 10 - STABILITY AND REACTIVITY**

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-3 Light Blue
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
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<th>LC₅₀ mg/m³</th>
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<tr>
<td>Clay/Kaolin</td>
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<td>15</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)
inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSOAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A

Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
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<tr>
<th>Property</th>
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<td>Solubility in Water</td>
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<td>Auto-Ignition Temperature</td>
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**SECTION 10 - STABILITY AND REACTIVITY**

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility - Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-4 Second Hand Rose
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<td>NA</td>
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<tr>
<td>Calcium Carbonate</td>
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<td>15 NA</td>
<td>6540</td>
<td>NA</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
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**SECTION 10 - STABILITY AND REACTIVITY**

- Stability - Unknown
- Hazardous Polymerization - None
- Hazardous Decomposition Products - None
- Conditions to Avoid - None
- Incompatibility – Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.
- Animal Experiment - There is no toxicity data on this mixture
- Acute – Likely to be a skin and eye irritant
- Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

- No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-5 Iron Red  
Manufacturer's Name: Minnesota Clay  
Address: 2960 Niagara Lane, Plymouth MN 55447  
Tel Phone: (763) 432-0875  
Emergency Tel: None  
Date Prepared: July 29, 2011  
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
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<th>LC₅₀ mg/m³</th>
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<tr>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Talc (non-asbestiform)
Fibrotic pneumoconiosis; irritation eyes.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSOAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<th>Property</th>
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<td>Appearance</td>
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<td>Auto-Ignition Temperature</td>
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</table>
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-6 Copperhead
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 5547
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
Talc (non-asbestiform)
Fibrotic pneumoconiosis; irritation eyes.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

---

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

---

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
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</table>
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-7 Gloss White
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
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<td>Zirconium</td>
<td>14940-68-2</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic
exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies
suggest that inhalation may enhance susceptibility to respiratory infection.

Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of
retention in lungs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If
irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate
ventilation. Wear personnel protective equipment (Goggles, glove, personal protective
clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-11 Light Rust
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
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<td>Silica (Quartz)</td>
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<td>Zirconium</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of
retention in lungs.

Tin or Tin Compounds
Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of
Pneumoconiosis.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If
irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate
ventilation. Wear personnel protective equipment (Goggles, glove, personal protective
clothing).
**SECTION 7 - HANDLING AND STORAGE**

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

**SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tr>
<td>Appearance</td>
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<td>Explosive Properties</td>
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<td>Odor and Odor Threshold</td>
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<td>Flash Point</td>
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SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-12 Metallic Green
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are
some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

**Calcium Carbonate**
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

**Zirconium or Zirconium Compounds**
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

**Copper or Copper Compounds**
Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

---

**SECTION 4 - FIRST-AID MEASURES**

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

---

**SECTION 5 - FIRE-FIGHTING MEASURES**

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None
Extinguishing Media - None

Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point - None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236
No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-13 Banana
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
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<td>Calcium Carbonate</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zirconium or Zirconium Compounds
Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

**SECTION 7 - HANDLING AND STORAGE**

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

**SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance - Powder  Partition Coefficient - N/A

Explosive Properties - N/A  pH - N/A

Odor and Odor Threshold - N/A  Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-14 Oil Spot Black
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
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<th>LC₅₀ mg/m³</th>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Manganese or Manganese Compounds
Acute effects of exposure: Exposure via inhalation to heavy concentrations of dusts containing manganese compounds for as little as three months have affected the central nervous system as manganese poisoning. Chronic effects of exposure: Excessive, long-term inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. Manganese poisoning: The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).
SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.
Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands
Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<td>Auto-Ignition Temperature</td>
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SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown
SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.
SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-16 Light Beige
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Talc (non asbestiform)
Fibrotic pneumoconiosis; irritation eyes.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye -  Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder                  pH - N/A
Explosive Properties - N/A           Oxidizing Properties - N/A
Odor and Odor Threshold - N/A       Boiling Point - N/A
Partition Coefficient - N/A          Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HM-1 Matte White
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds
May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point - None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
**SECTION 13 - DISPOSAL INFORMATION**

Dispose according to local regulations, No specific information available

**SECTION 14 - TRANSPORTATION INFORMATION**

No specific information available

**SECTION 15 - REGULATORY INFORMATION**

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

**SECTION 16 - OTHER INFORMATION**

Conforms to D 4236

No other specific information available
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HM-2 Manzarine Blue
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)
inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds
May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None

Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Odor and Odor Threshold - N/A

Explosive Properties - N/A

Partition Coefficient - N/A
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<tr>
<td>pH</td>
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<td>Oxidizing Properties</td>
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<td>Boiling Point</td>
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<td>Solubility in Water</td>
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<td>Vapor Pressure</td>
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<td>Applicable Evaporation Rate</td>
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<tr>
<td>Melting/Softening Point</td>
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<td>Freezing Point</td>
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<td>Flash Point</td>
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<td>Flammable Limits</td>
<td>N/A</td>
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<tr>
<td>Auto-Ignition Temperature</td>
<td>N/A</td>
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#### SECTION 10 - STABILITY AND REACTIVITY

- **Stability**: Unknown
- **Hazardous Polymerization**: None
- **Hazardous Decomposition Products**: None
- **Conditions to Avoid**: None
- **Incompatibility**: Unknown

#### SECTION 11 - TOXICOLOGICAL INFORMATION

- **Hazard to Humans**: There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

- **Animal Experiment**: There is no toxicity data on this mixture

- **Acute**: Likely to be a skin and eye irritant

- **Chronic/Other**: Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.
SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236
No other specific information available
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HM-4 Waxy Black
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
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<th>LC₅₀ mg/m³</th>
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<td>Silica (Quartz)</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis
Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds
May causes skin irritation if in contact for extended periods of time.

Manganese or Manganese Compounds
Acute effects of exposure: Exposure via inhalation to heavy concentrations of dusts containing manganese compounds for as little as three months have affected the central nervous system as manganese poisoning. Chronic effects of exposure: Excessive, long-term inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. Manganese poisoning: The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait.
SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.
Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HM-5 Straw Tan
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 5547
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
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<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15, 2</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10 mg/m³, 0.025</td>
<td>NA</td>
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<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>5, 10</td>
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<td>Zinc Compounds</td>
<td>7440-66-6</td>
<td>5, 5</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds
May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A  Melting/Softening Point - None
Solubility in Water - No  Freezing Point - N/A
Vapor Pressure - N/A  Specific Gravity - N/A
Percent Volatile - N/A  Flash Point - N/A
Vapor Density - N/A  Flammable Limits - N/A
Applicable Evaporation Rate - N/A  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available
MATERIAL SAFETY DATA SHEET

SECTION I
MANUFACTURER
MINNESOTA/MIDWEST CLAY CO.
8901 GRAND AVE S
BLOOMINGTON, MN 55420

EMERGENCY TELEPHONE
(612) 994-9101

CHEMICAL NAME
ALUMINA SILICATE

TRADE NAME AND SYNONYM
HE-5 CERAMIC GLAZE

SECTION II

HAZARDOUS INGREDIENTS

MATERIAL
FREE SILICA
PARTICULATES NOT OTHERWISE CLASSIFIED
HARMLESS ALUMINUM SILICATE
(EYE IRRITANT)

OSHA/FEL OR OUR TWA
UP TO 20%
N/A
<1%

15mg/cu.m.
10mg/cu.m.

0.1 mg/cu.m.

Hazardous only when prolonged & excessive respiration of dry, airborne material occurs.

SPECIAL LABELING INSTRUCTIONS
Minnesota/Midwest Clay Company is a subscriber to the Art and Craft Material Institute, 715 Arsenal St., Boston MA 02116. Our clay and glaze products have been evaluated and certified in accordance with the voluntary chronic hazard labeling standard ASTM D-4236 (American Society for Testing and Materials). Products manufactured by Minnesota/Midwest Clay Company are identified with the following labels:

*Products bearing the NF Approved Product or NF Health Label (Non-Toxic) seal of the Art and Craft Materials Institute, Inc. are certified to be properly labeled to a program of toxicological evaluation by a medical expert. This program is reviewed by the Institute's Toxicological Advisory Board. These products are certified by the Institute to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236. In addition, there is no physical hazard as defined within 29 CFR part 1910.1200(e).*

*Products bearing the NF Health Label (Caution Required) seal of the Art and Craft Materials Institute, Inc. are certified to be properly labeled to a program of toxicological evaluation by a medical expert. This program is reviewed by the Institute's Toxicological Advisory Board. These products are certified by the Institute to be labeled in accordance with the voluntary labeling standard ASTM D-4236.*

SECTION III

PHYSICAL DATA
BOILING POINT (F): N/A
VAPOR DENSITY: N/A
VAPOR PRESSURE: N/A
SOLUBILITY IN WATER: N/A
SPECIFIC GRAVITY (H2O=1): N/A
PERCENT VOLATILE BY VOLUME: N/A
EVAPORATION RATE: N/A

APPEARANCE AND ODOR: WHITE OR GREY COLOR, EARTHY ODOR IF WET.
WARNING: EYE IRRITANT. EXPOSURE MAY CAUSE LUNG DAMAGE. CANCER AGENT BY INHALATION BASED ON TESTS WITH LABORATORY ANIMALS.

CONTAINS: VESICUM PRO (EYE IRRITANT) CRYSTALLINE SILICA

Keep away from eyes. Mix and handle dry material in locally exhausting hood or glove box. Use NIOSH-certified mask for dusts.

KEEP OUT OF REACH OF CHILDREN.

FIRST AID: If eye contact occurs, rinse immediately with water. Remove contact lenses then flush with tap water for 15 minutes. If symptoms persist, see a physician.

For further health information, contact a local poison control center.

This label is for the following dry glazes: G2, G3, G5, G6, G7, G9, G11, G12, G13, G14, G17, HG2, HG3, HG4, HG7, HG8, HG12, HG13, HG16, HM1, HM2, HM6, HM11, HM13, HM3, HM7, HM11, HM35, HM41, HM56.

For the following dry glazes use the same label except omit the CT warning: "EXPOSURE MAY CAUSE LUNG DAMAGE". Those formulas are: T1, T2, T3, T4, T6, TR, HG5, HG6.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HM-10 Slate Green
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
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<td>PEL TLV</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³ 0.025%Silica+2</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hypercalcemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Nickel or Nickel Compounds
Nickel dust or fume can cause sensitization dermatitis and may cause cancer of the paranasal sinuses and the lungs. Nickel fumes are respiratory irritants and may cause pneumonitis. Skin contact may cause an allergic skin rash. Material causes eye irritation. Avoid contact with eyes, skin and clothing. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Chromium or Chromium Compounds
Odorless, nonflammable green powder which can cause skin, eye, and respiratory irritation. May have adverse effects if ingested. Long-term exposure may adversely affect the lungs. Avoid breathing dust.

Lithium Carbonate
Lithium carbonate has low oral and dermal toxicity and is moderately irritating to the eyes. It is not sensitizing and is essentially non-irritating to the skin. The use of this product in industrial and commercial applications presents no significant toxicity hazard. Exposure to lithium in industrial settings is not considered to pose a risk to human health.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in cool well-ventilated area.
SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown
SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Chromium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.
SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-1 Mist Gray
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15 2</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³ 0.025  0.0%Silica+2</td>
<td>NA</td>
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<td>Calcium Carbonate</td>
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</tbody>
</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hypercalcemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
**Vapor Pressure** - N/A
**Percent Volatile** - N/A
**Vapor Density** - N/A
**Applicable Evaporation Rate** - N/A
**Melting/Softening Point** - None
**Freezing Point** - N/A
**Specific Gravity** - N/A
**Flash Point** - N/A
**Flammable Limits** - N/A
**Auto-Ignition Temperature** - N/A

**SECTION 10 - STABILITY AND REACTIVITY**

- Stability - Unknown
- Hazardous Polymerization - None
- Hazardous Decomposition Products - None
- Conditions to Avoid - None
- Incompatibility – Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

- Animal Experiment - There is no toxicity data on this mixture

- Acute – Likely to be a skin and eye irritant

- Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

- No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-2 Metallic Slate
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
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<tr>
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<td>Clay/Kaolin</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³ 0.025 %Silica+2</td>
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<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA NA</td>
<td>NA</td>
<td>NA</td>
</tr>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic
exposure may result in hypercalcemia, alkalosis, and renal impairment. Animal studies
suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic
chemicals. Many of these pigments are in the form of spinel, which are formed by the
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homogeneous pigment crystals. Spinels are considered of less hazardous than the
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following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and
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SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If
irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
pH - N/A

Explosive Properties - N/A
Oxidizing Properties - N/A

Odor and Odor Threshold - N/A
Boiling Point - N/A

Partition Coefficient - N/A
Solubility in Water - No
**SECTION 10 - STABILITY AND REACTIVITY**

Stability - Unknown  
Hazardous Polymerization - None  
Hazardous Decomposition Products - None  
Conditions to Avoid - None  
Incompatibility – Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-3 Porcelain
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
<td>0.025</td>
<td>NA</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
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<td>15</td>
<td>NA</td>
<td>6540</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
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Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hypercalcemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point – None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A
SECTON 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTON 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant
Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTON 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTON 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTON 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236
No other specific information available.
# MATERIAL SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

### Identity:
M-4 Butterscotch

### Manufacturer's Name:
Minnesota Clay

### Address:
2960 Niagara Lane, Plymouth MN 55447

### Tel Phone:
(763) 432-0875

### Emergency Tel:
None

### Date Prepared:
July 29, 2011

### Replaces MSDS dated:
N/A

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10 mg/m³</td>
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<td>Calcium Carbonate</td>
<td>1317-65-3</td>
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## SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the...
risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None
Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
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<td>Specific Gravity</td>
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<td>Auto-Ignition Temperature</td>
<td>N/A</td>
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**SECTION 10 - STABILITY AND REACTIVITY**

- Stability: Unknown
- Hazardous Polymerization: None
- Hazardous Decomposition Products: None
- Conditions to Avoid: None
- Incompatibility: Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- Hazard to Humans: There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.
- Animal Experiment: There is no toxicity data on this mixture
- Acute: Likely to be a skin and eye irritant
- Chronic/Other: Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

- No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-5 Faience Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
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<td>10mg/m³</td>
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<td>Pigments</td>
<td>Varies</td>
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Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder                        pH - N/A
Explosive Properties - N/A                    Oxidizing Properties - N/A
Odor and Odor Threshold - N/A                Boiling Point - N/A
Partition Coefficient - N/A                  Solubility in Water - No
### SECTION 10 - STABILITY AND REACTIVITY

- **Stability**: Unknown
- **Hazardous Polymerization**: None
- **Hazardous Decomposition Products**: None
- **Conditions to Avoid**: None
- **Incompatibility**: Unknown

### SECTION 11 - TOXICOLOGICAL INFORMATION

- **Hazard to Humans**: There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.
- **Animal Experiment**: There is no toxicity data on this mixture.
- **Acute**: Likely to be a skin and eye irritant
- **Chronic/Other**: Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

### SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-9 Danish Green  
Manufacturer's Name: Minnesota Clay  
Address: 2960 Niagara Lane, Plymouth MN 55447  
Tel Phone: (763) 432-0875  
Emergency Tel: None  
Date Prepared: July 29, 2011  
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
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</thead>
<tbody>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15 2</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³ 0.025 0.025</td>
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<tr>
<td>Calcium Carbonate</td>
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<td>6540</td>
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<tr>
<td>Copper Compounds</td>
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<td>Pigments</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)  
A single exposure will not result in serious adverse health effects.  
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.  
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are
some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Copper or Copper Compounds
Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.
SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing
### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
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<tr>
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<tr>
<td>Explosive Properties</td>
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<td>Boiling Point</td>
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<td>Solubility in Water</td>
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<td>Vapor Pressure</td>
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<td>Percent Volatile</td>
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<td>Freezing Point</td>
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<td>Auto-Ignition Temperature</td>
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### SECTION 10 - STABILITY AND REACTIVITY

<table>
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<th>Property</th>
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<td>Conditions to Avoid</td>
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<td>Incompatibility</td>
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</table>

### SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant
Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-10 Seal Brown
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>PEL</td>
<td>TLV</td>
<td></td>
</tr>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>2</td>
<td>NA</td>
</tr>
<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
<td>0.025</td>
<td>NA</td>
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<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
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<td>NA</td>
<td>6540</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

**Calcium Carbonate**
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hypercalcemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

**Pigments (Stains)**
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

---

**SECTION 4 - FIRST-AID MEASURES**

**Inhalation** - Remove from exposure.

**Dermal** - Wash skin with soap and water.

**Eye** - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

**Ingestion** - Do not induce vomiting, contact a physician.

---

**SECTION 5 - FIRE-FIGHTING MEASURES**

**Special Fire-Fighting Procedure** - None

**Unusual Fire or Explosion Hazards** - None

**Extinguishing Media** - None

**Hazardous Combustion Products** - Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder  pH - N/A
Explosive Properties - N/A  Oxidizing Properties - N/A
Odor and Odor Threshold - N/A  Boiling Point - N/A
Partition Coefficient - N/A  Solubility in Water - No
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point - None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other – Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-1 Midas’ Touch
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
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<tr>
<td></td>
<td></td>
<td>PEL</td>
<td>TLV</td>
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<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>2</td>
<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
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<td>Copper Compounds</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Copper or Copper Compounds
Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Manganese or Manganese Compounds
Acute effects of exposure: Exposure via inhalation to heavy concentrations of dusts containing manganese compounds for as little as three months have affected the central nervous system as manganese poisoning. Chronic effects of exposure: Excessive, long-term inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. Manganese poisoning: The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmic movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation
Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture
Acute – Likely to be a skin and eye irritant

Chronic/Other  - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available
# MATERIAL SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

**Identity:** NG-2 Sea Mist Green  
**Manufacturer's Name:** Minnesota Clay  
**Address:** 2960 Niagara Lane, Plymouth MN 55447  
**Tel Phone:** (763) 432-0875  
**Emergency Tel:** None  
**Date Prepared:** July 29, 2011  
**Replaces MSDS dated:** N/A

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Copper or Copper Compounds
Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Talc (non-asbestiform)
Fibrotic pneumoconiosis; irritation eyes.

Tin or Tin Compounds
Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

Titanium Dioxide
NIOSH has identified titanium dioxide as a potential occupational carcinogen.
Zinc or Zinc Compounds
May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.
Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-3 Blue Gray Speckle
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 5547
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ (mg/kg)</th>
<th>LC₅₀ (mg/m³)</th>
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<tr>
<td>Silica (Quartz)</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are
some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Titanium Dioxide
NIOSH has identified titanium dioxide as a potential occupational carcinogen.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-4 Sapphire Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: NA

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
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<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>2</td>
<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³</td>
<td>0.025</td>
<td>NA</td>
</tr>
<tr>
<td>Cobalt or Cobalt Compounds</td>
<td>7440-48-4</td>
<td>0.01</td>
<td>0.02</td>
<td>NA</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
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Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None

Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-5 Blue Jean
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: NA

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ (mg/kg)</th>
<th>LC₅₀ (mg/m³)</th>
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<tr>
<td>Clay/Kaolin</td>
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<td>Silica (Quartz)</td>
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<td>Cobalt or Cobalt Compounds</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Copper or Copper Compounds
Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Zinc or Zinc Compounds
May cause skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.
SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing
### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<td>pH</td>
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<td>Oxidizing Properties</td>
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<td>Auto-Ignition Temperature</td>
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### SECTION 10 - STABILITY AND REACTIVITY

- Stability: Unknown
- Hazardous Polymerization: None
- Hazardous Decomposition Products: None
- Conditions to Avoid: None
- Incompatibility: Unknown

### SECTION 11 - TOXICOLOGICAL INFORMATION

- Hazard to Humans: There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.
- Animal Experiment: There is no toxicity data on this mixture
- Acute: Likely to be a skin and eye irritant
Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available
**MATERIAL SAFETY DATA SHEET**

**SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION**

**Identity:** NG-6 Red Planet  
**Manufacturer's Name:** Minnesota Clay  
**Address:** 2960 Niagara Lane, Plymouth MN 55447  
**Tel Phone:** (763) 432-0875  
**Emergency Tel:** None  
**Date Prepared:** July 29, 2011  
**Replaces MSDS dated:** NA

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

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<tr>
<td>Silica (Quartz)</td>
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**SECTION 3 - HAZARD IDENTIFICATION**

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)  
A single exposure will not result in serious adverse health effects.  
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic
kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Talc (non asbestiform)
Fibrotic pneumoconiosis; irritation eyes.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant
Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-7 Blueberry
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: NA

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<td>14808-60-7</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis
Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Magnesium Compounds
May cause irritation, diarrhea and stomach pain.

Lithium Carbonate
Lithium carbonate has low oral and dermal toxicity and is moderately irritating to the eyes. It is not sensitizing and is essentially non-irritating to the skin. The use of this product in industrial and commercial applications presents no significant toxicity hazard. Exposure to lithium in industrial settings is not considered to pose a risk to human health.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Chromium or Chromium Compounds
Odorless, nonflammable green powder which can cause skin, eye, and respiratory irritation. May have adverse effects if ingested. Long-term exposure may adversely affect the lungs. Avoid breathing dusts.
SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.
Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<td>Auto-Ignition Temperature</td>
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SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant
Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz, Cobalt and Chromium are listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-8 Sage  
Manufacturer's Name: Minnesota Clay  
Address: 2960 Niagara Lane, Plymouth MN 55447  
Tel Phone: (763) 432-0875  
Emergency Tel: None  
Date Prepared: July 29, 2011  
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
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<td>PEL</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds
May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder  pH - N/A
Explosive Properties - N/A  Oxidizing Properties - N/A
Odor and Odor Threshold - N/A  Boiling Point - N/A
Partition Coefficient - N/A  Solubility in Water - No
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point - None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236
No other specific information available
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-9 Caribbean Green
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)
inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Copper or Copper Compounds
Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds
May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A

pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-10 Espresso
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate
Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds
May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<th>Property</th>
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<tr>
<td>Appearance</td>
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<td>pH</td>
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<td>Explosive Properties</td>
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<td>Auto-Ignition Temperature</td>
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**SECTION 10 - STABILITY AND REACTIVITY**

Stability - Unknown
- Hazardous Polymerization - None
- Hazardous Decomposition Products - None
- Conditions to Avoid - None
- Incompatibility – Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-11 Sandstorm
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Talc (non-asbestiform)
Fibrotic pneumoconiosis; irritation eyes.

Tin or Tin Compounds
Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown
### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

### SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

### SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<td>Auto-Ignition Temperature</td>
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**SECTION 10 - STABILITY AND REACTIVITY**

- Stability - Unknown
- Hazardous Polymerization - None
- Hazardous Decomposition Products - None
- Conditions to Avoid - None
- Incompatibility – Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.
- Animal Experiment - There is no toxicity data on this mixture
- Acute – Likely to be a skin and eye irritant
- Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

- No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No other specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-12 Floating Blue
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
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<th>LC₅₀ mg/m³</th>
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<td>PEL         TLV</td>
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<td>10mg/m³%Silica+2</td>
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<td>Cobalt or Cobalt Compounds</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture.

Acute – Likely to be a skin and eye irritant.

Chronic/Other – Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No other specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-14 Charcoal
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
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<th>EXPOSURE LIMITS (mg/m³)</th>
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<tr>
<td>Clay/Kaolin</td>
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<td>15</td>
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<tr>
<td>Silica (Quartz)</td>
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<td>10mg/m³</td>
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<td>Pigments</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Powder</td>
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<td>Explosive Properties</td>
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<td>Flash Point</td>
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Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-15 Mint Texture
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective...
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Copper or Copper Compounds
Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Tin or Tin Compounds
Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Explosive Properties - N/A

Odor and Odor Threshold - N/A

Partition Coefficient - N/A

pH - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Solubility in Water - No
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<td>Vapor Pressure</td>
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<td>N/A</td>
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<td>Auto-Ignition Temperature</td>
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**SECTION 10 - STABILITY AND REACTIVITY**

Stability - Unknown  
Hazardous Polymerization - None  
Hazardous Decomposition Products - None  
Conditions to Avoid - None  
Incompatibility - Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-16 Metallic Black  
Manufacturer's Name: Minnesota Clay  
Address: 2960 Niagara Lane, Plymouth MN 55447  
Tel Phone: (763) 432-0875  
Emergency Tel: None  
Date Prepared: July 29, 2011  
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
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<td>15 2</td>
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<td>Silica (Quartz)</td>
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<td>10mg/m³ 0.025% Silica + 2</td>
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<td>.1 .2</td>
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<td>Cobalt or Cobalt Compounds</td>
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<td>.01 .02</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)  
A single exposure will not result in serious adverse health effects.  
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are
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Copper or Copper Compounds
Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Cobalt or Cobalt Compounds
Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool, well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point - None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-18 Tarnished Brass  
Manufacturer’s Name: Minnesota Clay  
Address: 2960 Niagara Lane, Plymouth MN 55447  
Tel Phone: (763) 432-0875  
Emergency Tel: None  
Date Prepared: July 29, 2011  
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS</th>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)  
A single exposure will not result in serious adverse health effects.  
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.  
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Talc (non asbestiform)
Fibrotic pneumoconiosis; irritation eyes.

Manganese or Manganese Compounds
Acute effects of exposure: Exposure via inhalation to heavy concentrations of dusts containing manganese compounds for as little as three months have affected the central nervous system as manganese poisoning. Chronic effects of exposure: Excessive, long-term inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. Manganese poisoning: The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.
Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands
Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation
Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder Partition Coefficient - N/A
Explosive Properties - N/A pH - N/A
Odor and Odor Threshold - N/A Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236
No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: SG-1 Creamy Caramel
Manufacturer’s Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
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<tr>
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<td>PEL</td>
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<td>Clay/Kaolin</td>
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<td>15</td>
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<td>Silica (Quartz)</td>
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<td>Tin Compounds</td>
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<td>.1</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Tin or Tin Compounds
Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

Titanium Dioxide
NIOSH has identified titanium dioxide as a potential occupational carcinogen.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder  pH - N/A
Explosive Properties - N/A  Oxidizing Properties - N/A
Odor and Odor Threshold - N/A  Boiling Point - N/A
Partition Coefficient - N/A  Solubility in Water - No
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<td>Applicable Evaporation Rate</td>
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<tr>
<td>Melting/Softening Point</td>
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<td>Freezing Point</td>
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<td>Specific Gravity</td>
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<tr>
<td>Auto-Ignition Temperature</td>
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</table>

**SECTION 10 - STABILITY AND REACTIVITY**

- Stability - Unknown
- Hazardous Polymerization - None
- Hazardous Decomposition Products - None
- Conditions to Avoid - None
- Incompatibility – Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.
- Animal Experiment - There is no toxicity data on this mixture
- Acute – Likely to be a skin and eye irritant
- Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: SG-2 Nebula
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
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<td>Clay/Kaolin</td>
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<tr>
<td>Silica (Quartz)</td>
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<td>Titanium Dioxide</td>
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<td>Pigments</td>
<td>Varies</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Titanium Dioxide
NIOSH has identified titanium dioxide as a potential occupational carcinogen.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and, or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder  pH - N/A
Explosive Properties - N/A  Oxidizing Properties - N/A
Odor and Odor Threshold - N/A  Boiling Point - N/A
Partition Coefficient - N/A  Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None

Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
**MATERIAL SAFETY DATA SHEET**

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: SG-3 Blue Ice  
Manufacturer's Name: Minnesota Clay  
Address: 2960 Niagara Lane, Plymouth MN 55447  
Tel Phone: (763) 432-0875  
Emergency Tel: None  
Date Prepared: July 29, 2011  
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
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<td>Silica (Quartz)</td>
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<td>Titanium Dioxide</td>
<td>13463-67-7</td>
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<td>.2</td>
<td>NA</td>
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<td>Pigments</td>
<td>Varies</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)  
A single exposure will not result in serious adverse health effects.  
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.  
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the
risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Titanium Dioxide
NIOSH has identified titanium dioxide as a potential occupational carcinogen.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and, or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder  pH - N/A
Explosive Properties - N/A  Oxidizing Properties - N/A
Odor and Odor Threshold - N/A  Boiling Point - N/A
Partition Coefficient - N/A  Solubility in Water - No
Vapor Pressure - N/A  
Percent Volatile - N/A  
Vapor Density - N/A  
Applicable Evaporation Rate - N/A  
Melting/Softening Point - None  
Freezing Point - N/A  
Specific Gravity - N/A  
Flash Point - N/A  
Flammable Limits - N/A  
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown  
Hazardous Polymerization - None  
Hazardous Decomposition Products - None  
Conditions to Avoid - None  
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
Identity: SG-4 New Albany Brown
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>PEL 15, TLV 2</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³ 0.025, %Silica+2</td>
<td>NA</td>
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<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
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<td>Manganese or Mang. Compounds</td>
<td>7439-96-5</td>
<td>5 Ceiling .2</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are
some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Titanium Dioxide
NIOSH has identified titanium dioxide as a potential occupational carcinogen.

Manganese or Manganese Compounds
Acute effects of exposure: Exposure via inhalation to heavy concentrations of dusts containing manganese compounds for as little as three months have affected the central nervous system as manganese poisoning. Chronic effects of exposure: Excessive, long-term inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. Manganese poisoning: The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None

Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Odor and Odor Threshold - N/A

Explosive Properties - N/A

Partition Coefficient - N/A
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: SG-5 Celestial Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
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<tr>
<td></td>
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<td>PEL</td>
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<td>Clay/Kaolin</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³ %Silica+2</td>
<td>0.025</td>
<td>NA</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.
Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point - None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contends quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.
No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-1 Clear
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.
Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands
Storage - Store in tightly closed container. Store in a cool well-ventilated area.

### SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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<td>Explosive Properties</td>
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<td>Vapor Pressure</td>
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<tr>
<td>Auto-Ignition Temperature</td>
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### SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown
SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other – Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.
SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-2 Yellow Gold
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>INGREDIENTS</th>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m^3%Silica+2</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-3 Sun Yellow
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>PEL 10 mg/m³, TLV 0.025</td>
<td>NA</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
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Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-4 Buckskin
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PEL         TLV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15          2</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10 mg/m³ 3 %Silica+2</td>
<td>0.025</td>
<td>NA</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation
Procedure/Equipment - no specific requirement. See personal protective equipment.
Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands
Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No
Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown
SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture.

Acute – Likely to be a skin and eye irritant.

Chronic/Other – Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.
Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-6 Royal Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS</th>
<th>LD$_{50}$</th>
<th>LC$_{50}$</th>
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<tr>
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<td>PEL (mg/m$^3$)</td>
<td>TLV</td>
<td>mg/kg</td>
</tr>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>2</td>
<td>NA</td>
</tr>
<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m$^3$</td>
<td>0.025</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A                Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment  - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other   - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-7 Olive  
Manufacturer's Name: Minnesota Clay  
Address: 2960 Niagara Lane, Plymouth MN 55447  
Tel Phone: (763) 432-0875  
Emergency Tel: None  
Date Prepared: July 29, 2011  
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ (mg/kg)</th>
<th>LC₅₀ (mg/m³)</th>
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<tr>
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<td>PEL TLV</td>
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<td>NA</td>
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<td>Silica (Quartz)</td>
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<td>10mg/m³ 0.025%Silica+2</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)  
A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney
disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Nickel or Nickel Compounds
Nickel dust or fume can cause sensitization dermatitis and may cause cancer of the paranasal sinuses and the lungs. Nickel fumes are respiratory irritants and may cause pneumonitis. Skin contact may cause an allergic skin rash. Material causes eye irritation. Avoid contact with eyes, skin and clothing. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A  
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown  
Hazardous Polymerization - None  
Hazardous Decomposition Products - None  
Conditions to Avoid - None  
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-8 Raspberry
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD$_{50}$ (mg/kg)</th>
<th>LC$_{50}$ (mg/m³)</th>
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<tbody>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15 2</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m³ 0.025%Silica+2</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
**SECTION 10 - STABILITY AND REACTIVITY**

Stability - Unknown  
Hazardous Polymerization - None  
Hazardous Decomposition Products - None  
Conditions to Avoid - None  
Incompatibility – Unknown

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.  

Animal Experiment - There is no toxicity data on this mixture  

Acute – Likely to be a skin and eye irritant  

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

**SECTION 12 - ECOLOGICAL INFORMATION**

No specific information available.

**SECTION 13 - DISPOSAL INFORMATION**

Dispose according to local regulations. No specific information available.

**SECTION 14 - TRANSPORTATION INFORMATION**

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-9 Pumpkin
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀ mg/kg</th>
<th>LC₅₀ mg/m³</th>
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<tbody>
<tr>
<td>Clay/Kaolin</td>
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<td>Silica (Quartz)</td>
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SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

Cadmium
The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSOAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder  
Explosive Properties - N/A  
Odor and Odor Threshold - N/A  
Partition Coefficient - N/A  
pH - N/A  
Oxidizing Properties - N/A  
Boiling Point - N/A  
Solubility in Water - No
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point – None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-10 Cherry
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>INGREDIENTS</th>
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<tr>
<td></td>
<td></td>
<td>PEL</td>
<td>TLV</td>
<td></td>
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<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>2</td>
<td>NA</td>
</tr>
<tr>
<td>Silica (Quartz)</td>
<td>14808-60-7</td>
<td>10mg/m^3</td>
<td>0.025</td>
<td>NA</td>
</tr>
<tr>
<td>Pigments (Contains Cadmium)</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Cadmium or Cadmium Pigments</td>
<td>7440-43-9</td>
<td>5 ug/m(3)</td>
<td>NA</td>
<td>2330</td>
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</table>

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)
A single exposure will not result in serious adverse health effects.
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective
tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)
Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

Cadmium
The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products – Unknown
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No
Vapor Pressure - N/A  Freezing Point - N/A
Percent Volatile - N/A  Specific Gravity - N/A
Vapor Density - N/A  Flash Point - N/A
Applicable Evaporation Rate - N/A  Flammable Limits - N/A
Melting/Softening Point – None  Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.
SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

**Identity:** T-11 Bright Yellow  
**Manufacturer’s Name:** Minnesota Clay  
**Address:** 2960 Niagara Lane, Plymouth MN 55447  
**Tel Phone:** (763) 432-0875  
**Emergency Tel:** None  
**Date Prepared:** July 29, 2011  
**Replaces MSDS dated:** N/A

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMITS (mg/m³)</th>
<th>LD₅₀</th>
<th>LC₅₀</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PEL</td>
<td>TLV</td>
<td>mg/kg</td>
</tr>
<tr>
<td>Clay/Kaolin</td>
<td>1332-58-7</td>
<td>15</td>
<td>2</td>
<td>NA</td>
</tr>
<tr>
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<td>10mg/m³</td>
<td>0.025</td>
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<tr>
<td>Pigments</td>
<td>Varies</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

**SECTION 3 - HAZARD IDENTIFICATION**

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)  
A single exposure will not result in serious adverse health effects.  
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SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.
Dermal - Wash skin with soap and water.
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None
Unusual Fire or Explosion Hazards - None
Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-12 Plum
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
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<th>EXPOSURE LIMITS</th>
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</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>(mg/m$^3$)</td>
<td>mg/kg</td>
<td>mg/m$^3$</td>
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Ingestion - Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None
Hazardous Combustion Products – Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - Place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).
SECTION 7 - HANDLING AND STORAGE

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder
Explosive Properties - N/A
Odor and Odor Threshold - N/A
Partition Coefficient - N/A
pH - N/A
Oxidizing Properties - N/A
Boiling Point - N/A
Solubility in Water - No

Vapor Pressure - N/A
Percent Volatile - N/A
Vapor Density - N/A
Applicable Evaporation Rate - N/A
Melting/Softening Point – None
Freezing Point - N/A
Specific Gravity - N/A
Flash Point - N/A
Flammable Limits - N/A  
Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown  
Hazardous Polymerization - None  
Hazardous Decomposition Products - None  
Conditions to Avoid - None  
Incompatibility – Unknown

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Acute - Likely to be a skin and eye irritant

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SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

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No specific information available.
SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.
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No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236
No other specific information available.