
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

| INGREDIENTS | CAS NUMBER | EXPOSURE LIMITS (mg/m ³) | | LD ₅₀ mg/kg | LC ₅₀ mg/m ³ |
|----------------------------|------------|--|-------|------------------------|------------------------------------|
| | | PEL | TLV | | |
| Clay/Kaolin | 1332-58-7 | 15 | 2 | NA | NA |
| Silica (Quartz) | 14808-60-7 | <u>10mg/m³</u> %Silica+2 | 0.025 | NA | NA |
| Cobalt or Cobalt Compounds | 7440-48-4 | .01 | .02 | NA | NA |
| Copper Compounds | 7440-50-8 | .1 | .2 | NA | NA |
| Zinc Compounds | 7440-66-6 | 5 | 5 | NA | NA |

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