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# MATERIAL SAFETY DATA SHEET

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

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**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

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## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m <sup>3</sup> )		LD <sub>50</sub> mg/kg	LC <sub>50</sub> mg/m <sup>3</sup>
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m<sup>3</sup></u> %Silica+2	0.025	NA	NA
Cobalt Compounds	7440-48-4	.01	.02	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Zinc Compounds	7440-66-6	5	5	NA	NA

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## SECTION 3 - HAZARD IDENTIFICATION

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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.

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### **SECTION 4 - FIRST-AID MEASURES**

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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.

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### **SECTION 5 - FIRE-FIGHTING MEASURES**

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Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

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## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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

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## **SECTION 7 - HANDLING AND STORAGE**

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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.

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

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Engineering Measures – provide adequate ventilation

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

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## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance - Powder

Odor and Odor Threshold - N/A

Explosive Properties - N/A

Partition Coefficient - N/A

pH - N/A

Applicable Evaporation Rate - N/A

Oxidizing Properties - N/A

Melting/Softening Point - None

Boiling Point - N/A

Freezing Point - N/A

Solubility in Water - No

Specific Gravity - N/A

Vapor Pressure - N/A

Flash Point - N/A

Percent Volatile - N/A

Flammable Limits - N/A

Vapor Density - N/A

Auto-Ignition Temperature - N/A

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## **SECTION 10 - STABILITY AND REACTIVITY**

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Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

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## **SECTION 11 - TOXICOLOGICAL INFORMATION**

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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.

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**SECTION 12 - ECOLOGICAL INFORMATION**

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No specific information available.

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**SECTION 13 - DISPOSAL INFORMATION**

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Dispose according to local regulations, No specific information available

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**SECTION 14 - TRANSPORTATION INFORMATION**

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No specific information available

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**SECTION 15 - REGULATORY INFORMATION**

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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

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**SECTION 16 - OTHER INFORMATION**

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Conforms to D 4236

No other specific information available