

Safety Data Sheet – M4

Section 1: Product and Company Identification

Product Identifier: M4

Product Names: M4, M-4, M4 Clay

Product uses: various industrial uses

Manufacturer:

Industrial Mineral Company

7268 Frasinetti Road

Sacramento, California 95828

Emergency Telephone Number: 916-383-2811

Telephone Number for Information: 916-383-2811

Section 2: Hazards Identification



Respiratory Sensitizer



Irritant (skin and eye)

Skin Sensitizer

Respiratory Track Irritant

Exposure limits for Crystalline Silica: The current American Conference of Government Industrial Hygienist Threshold limit value for crystalline silica is: 0.1 mg/m³

Signal Word: Warning

Hazard Statement: Can cause skin, respiratory, and eye irritation

Precautionary Statement: Wear protective gloves, eye, and respiratory protection. Avoid breathing dust.

Section 3: Composition Information

Chemical Name	Common Name	CAS Number	%
Quartz (Silica)	SiO ₂	14808-60-7	15-20
Kaolinite	Al ₂ Si ₂ O ₅ (OH) ₄	1318-74-7	60-64
Mica/Illite	(K,Na,Ca)(Al,Mg,Fe) ₂ (Si,Al) ₄ O ₁₀ (OH,F) ₂	12001-26-2	9
Smectite	(Ca,Na) _x (Al,Mg,Fe) ₄ (Si,Al) ₈ O ₂₀ (OH,F) ₄ •nH ₂ O	12199-37-0	<10
Rutile	TiO ₂	1317-80-2	<2

Section 4: First-Aid Measures

Eye Contact: If eye contact occurs, rinse immediately with plenty of water. If irritation persists, seek medical attention

Skin Contact: Wash thoroughly with water. If irritation persists, seek medical attention

Inhalation: Move victim to fresh air in well ventilated area. If coughing or irritation persists, seek medical attention

Ingestion: Consult physician and/or obtain competent medical assistance

Safety Data Sheet – M4



Section 5 Fire Fighting Measures

General Fire Hazards: Not flammable

Extinguishing Media: Use appropriate extinguishing media for surrounding fire

Special Fire Fighting Procedure: None

Section 6: Accidental Release Measures

Clean-up Methods: When dust is generated it may over expose cleanup personnel to dust. Using respirators or wetting the material is recommended. When dry sweeping use NIOSH approved respirators when dust levels exceed exposure limits

Personal Precautions and Personal Protective Equipment: Wear appropriate protective equipment and clothing during clean-up. If dusty conditions exist use approved respirators.

Environmental Precautions: Material is a natural mineral product and will not cause adverse effects to the water system other than turbidity from suspended particles.

Section 7: Handling and Storage

Handling Procedures: Wear the appropriate eye protection and avoid dust contact with eyes. Minimize dust generation and accumulation. Wear the appropriate respiratory protection when in poorly ventilated areas. Use good industrial hygiene practices.

Section 8: Exposure Controls/Personal Protection

Airborne Exposure Limits:

Silica component limit to 0.1 mg/m³

NIOSH: PEL TWA 10 mg/m³ (total dust) mg/m³ (respirable)

OSHA: PEL TWA 15 mg/m³ (total dust) mg/m³ (respirable)

Engineering Measures: Use local exhaust ventilation to control exposure below applicable limits

Personal Protective Equipment (PPE):

Respiratory: Avoid actions that cause dust exposure to occur. Use local or general ventilation to control exposures below applicable exposure limits. NIOSH or MSHA approved particulate filter respirators should be used. Respirator and/or filter cartridge selection should be based on the ANSI Standard Z88.2.

Eyes: When working around activities where dust can contact the eyes, wear safety glasses or goggles to avoid eye irritation or injury. Wearing contacts without sealing goggles is not recommended.

Skin and Body: Protective Clothing is not essential

Section 9: Physical and Chemical Properties

Appearance: White	Odor: none
Physical state: Powder	Odor threshold: No data Available
pH: no data available	Flashpoint: NA
Melting/Freezing Point: no data available	Boiling Point: NA
Evaporation Rate: NA	Flammability: Not Flammable
Vapor Pressure (mm HG): 0 (approximately)	Vapor Density: NA
Relative density: NA	Specific Gravity: No data available
Solubility in water at 100 C: 0 (approximately)	Partition coefficient: No data available

Safety Data Sheet – M4



Decomposition temperature: no data available Viscosity: NA	Auto-ignition temperature: NA
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Section 10: Stability and Reactivity

Reactivity: No dangerous reactions are known under normal conditions of use

Chemical Stability: Stable

Possibility of Hazardous Reactions and Conditions to Avoid: None known

Incompatibility: None Known

Section 11: Toxicological Information

Possible Health Effects:

Target Organs: Skin, Eyes, and Respiratory system

Exposure Routes: Inhalation, skin or eye contact

Symptoms:

Short Term: Shortness of breath and/or coughing associated with dust inhalation.

Long Term: Steady and prolonged exposure to dust concentrations high than LTV without approved respirator could cause silicosis, a chronic disease of the lungs marked by acute fibrosis, may cause cancer based on animal data.

Warning: This product contains respirable sized crystalline silica, a chemical known to the state of California to cause Cancer. Compliance with all warnings concerning this material is required.

Section 12: Ecological Information

This material is not expected to be harmful to aquatic life

Section 13: Disposal Considerations

From a waste perspective, this product is not considered hazardous and may be disposed of as a solid waste in accordance with applicable federal, state, and local regulations.

Section 14: Transport Information

Not regulated as a hazardous material by DOT

Section 15 Regulatory Information

Not Regulated

Section 16: Other Information

Revisions: Existing MSDS revised to new GHS format. Revision Date 05/18/2015