

The Clay Minerals Society

Safety Data Sheet

1. Identification

Trade name: Synthetic Mica - Montmorillonite
Product code: SYn-1
Recommended use: Raw material
Restrictions on use: Scientific research and development
Supplier: The Clay Minerals Society
The Source Clays Repository
3635 Concorde Pkwy, Suite 500
Chantilly, VA 20151-1110 - United States of America
T (703) 652-9960
cms@clays.org

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2. Hazard(s) identification

Classification:

Not classified as a hazardous chemical

GHS US labeling:

No labeling applicable

3: Composition/Information on ingredients

Component	CAS-No.	Amount (%)
Synthetic Mica - Montmorillonite	Not applicable	100

4. First-aid measures

Inhalation: Move the affected person to the fresh air. Get medical attention if symptoms occur.

Skin: Gently wash with plenty of soap and water. Get medical advice if skin irritation persists.

Eyes: Rinse eyes with water as a precaution. Get medical attention if irritation develops and persists.

Ingestion: Call a poison center or a doctor if you feel unwell.

Most important symptoms: May cause respiratory irritation.

Immediate medical attention and special treatment, if necessary: Not required.

5. Fire-fighting measures

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: None.

Specific Hazards Arising from the Chemical: This product is not classified as flammable or combustible.

Special protective equipment and precautions for fire-fighters: Do not attempt to take action without suitable protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear suitable protective clothing. Avoid contact with eyes, skin and clothing.

Methods and material for containment and cleaning up: Mechanically recover the product. Minimize generation of dust. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

7. Handling and storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin and clothing. Wash hands with water and soap. Ensure adequate ventilation.

Storage conditions: No special storage required.

8. Exposure controls/personal protection

Exposure guidelines:

Synthetic Mica - Montmorillonite	5 mg/m ³ TWA OSHA PEL (Respirable)
	15 mg/m ³ TWA OSHA PEL (Total dust)

Appropriate engineering controls: Provide adequate general and local exhaust ventilation.

Environmental exposure controls: Avoid creating or spreading dust. Avoid release to the environment.

Personal protective equipment:

Hand protection: Wear suitable gloves

Eye protection: Use suitable eye protection

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and chemical properties

Appearance: Powder, white.

Physical state : Solid

Color : white

Odor : None

Odor threshold : No data available

pH : No data available

Melting point : No data available

Freezing point : Not applicable

Boiling point : No data available

Flash point : Not applicable

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Not applicable.

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density : 2.2

Solubility : No data available

Log Pow : No data available

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

Viscosity, kinematic : Not applicable

Explosive properties : No data available

Viscosity, dynamic : No data available

Oxidizing properties : No data available

Explosion limits : Not applicable

10. Stability and reactivity

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to avoid: None known.

Incompatible materials : None known.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Inhalation: May cause minor irritation to the respiratory tract and to other mucous membranes.

Skin: May cause slight irritation to the skin. Prolonged or repeated contact may cause skin to become dry.

Eyes: Contact may cause mechanical irritation and possible injury. May cause minor eye irritation.

Ingestion: None under normal conditions.

Carcinogenicity: Not classified

Synthetic Mica - Montmorillonite: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Germ cell mutagenicity: Not classified

Reproductive toxicity: Not classified

Numerical measures of toxicity: Oral rat LD50- > 2000 mg/kg; Dermal rabbit LD50- > 2000 mg/kg;

The following are the toxicity values for the components:

Synthetic Mica - Montmorillonite: No data available

Skin corrosion/irritation Not classified

Serious eye damage/irritation Not classified

Respiratory or skin sensitization Not classified

STOT-single exposure Not classified

STOT-repeated exposure Not classified

12. Ecological information

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects:

No data available

13. Disposal considerations

Regional legislation (waste): Dispose of in accordance with applicable federal, state, and local regulations.

14. Transport information

Department of Transportation (DOT)

Not regulated for transport

Transport by sea

Not regulated for transport

Air transport

Not regulated for transport

15. Regulatory information

SARA Section 313 - Emission Reporting: Not subject to reporting requirements of the United States SARA Section 313

CERCLA Section 103:

This product is not subject to reporting under CERCLA. However, many states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA 302:

Not applicable

SARA Section 311/312 Hazard Classes: Refer to Section 2 for OSHA Hazard Classification.

California Proposition 65:

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

TSCA: The TSCA status of this mineral is unknown. This product should be used for research and development purposes and such activities must be performed by or under the direction of a technically qualified individual as defined in 40CFR 720.36.

16. Other information

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NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. The company listed in Section 1 shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.