Silicic Acid, Magnesium Salt (cas 13776-74-4) MSDS

Material Safety Data Sheet acc. to OSHA and ANSI

1 Identification of substance:
Product details:
Product name: Enstatite, naturally occurring mineral

2 Composition/Data on components:
Chemical characterization:
Description: (CAS#)
Magnesium silicate (CAS# 13776-74-4); 100%

3 Hazards identification
Hazard description:
Xn Harmful

Information pertaining to particular dangers for man and environment
R 20 Harmful by inhalation.
Classification system
HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)
HEALTH 1 Health (acute effects) = 1
Flammability = 0
FIRE 0
Reactivity = 0
REACTIVITY 0

4 First aid measures
After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek immediate medical advice.
After skin contact
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
After eye contact
Rinse opened eye for several minutes under running water. Then consult a doctor.

5 Fire fighting measures
Suitable extinguishing agents
Product is not flammable. Use fire fighting measures that suit the
surrounding fire.
Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

6 Accidental release measures
Person-related safety precautions:
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Measures for environmental protection:
Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collection:
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Additional information:
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage
Handling
Information for safe handling:
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.
Information about protection against explosions and fires:
No special measures required.
Storage
Requirements to be met by storerooms and receptacles:
No special requirements.
Information about storage in one common storage facility:
Not required.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.

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8 Exposure controls and personal protection
Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Components with limit values that require monitoring at the workplace:

Silicon
mg/m³
ACGIH TLV 10
Belgium TWA 10
Denmark TWA 10
France VME 10
Korea TLV 10
Netherlands MAK-TGG 10
Norway TWA 10
Switzerland MAK-W 4
United Kingdom TWA 4 (respirable dust); 10 (total inhalable dust)
Components with limit values that require monitoring at the workplace:
Not required.

Additional information: No data

Personal protective equipment
General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Breathing equipment:
Use suitable respirator when high concentrations are present.
Protection of hands: Impervious gloves
Eye protection: Safety glasses
Body protection: Protective work clothing.

9 Physical and chemical properties:
General Information
Form: Flakes
Color: Green
Brown
Odor: Odorless
Change in condition
Melting point/Melting range: 1910°C (3470°F)
Boiling point/Boiling range: Not determined

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Sublimation temperature / start: Not determined
Flash point: Not applicable
Ignition temperature: Not determined
Decomposition temperature: Not determined
Danger of explosion: Product does not present an explosion hazard.
Explosion limits:
Lower: Not determined
Upper: Not determined
Vapor pressure: Not determined
Density at 20°C (68°F): 3.2-3.5 g/cm³
Solubility in / Miscibility with
Water: Insoluble

10 Stability and reactivity
Thermal decomposition / conditions to be avoided:
Decomposition will not occur if used and stored according to specifications.
Materials to be avoided: Alkali metals
Dangerous reactions: Reacts with alkali metals
Dangerous products of decomposition: None known.

11 Toxicological information
Acute toxicity:
Primary irritant effect:
on the skin: Irritant to skin and mucous membranes.
on the eye: Irritating effect.
Sensitization: No sensitizing effects known.
Subacute to chronic toxicity:
Inhalation of magnesium compounds may cause metal fume fever. Metallic magnesium which perforates the skin may cause local lesions. Some magnesium salts have produced muscle weakness, cardiac arrhythmias, respiratory effects and changes in blood chemistry following ingestion. Inorganic silicon compounds/silicon metal may be acute inhalation irritants. Prolonged inhalation may cause pulmonary fibrosis known as silicosis.

Additional toxicological information:
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

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12 Ecological information:
General notes:
Do not allow material to be released to the environment without proper governmental permits.

* 13 Disposal considerations
Product:
Recommendation
Consult state, local or national regulations to ensure proper disposal.
Uncleaned packagings:
Recommendation:
Disposal must be made according to official regulations.

* 14 Transport information
Not a hazardous material for transportation.
DOT regulations:
Hazard class: None
Land transport ADR/RID (cross-border)
ADR/RID class: None
Maritime transport IMDG:
IMDG Class: None
Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class: None

Transport/Additional information:
Not dangerous according to the above specifications.

* 15 Regulations
Product related hazard informations:
Hazard symbols:
Xn Harmful
Risk phrases:
20 Harmful by inhalation.
Safety phrases:
36 Wear suitable protective clothing.
National regulations
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.
Information about limitation of use:
For use only by technically qualified individuals.
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