



Haochuang Material

Shandong Haochuang Material co. ,ltd

South Street,Economic development zone,Dezhou city ,Shandong Province

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: FUMED SILICA

PRODUCT NAME: Silicon Dioxide, Hydrophilic fumed silica

COMPANY IDENTIFICATION:

SHANDONG HAOCHUANG MATERIAL CO. ,LTD

ADDRESS:ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, DEZHOU CITY, SHANDONG PROVINCE, CHINA

TEL.:0086 534-8899001

FAX: 0086 534-8899001

24-HOUR EMERGENCY TELEPHONE NUMBERS: 0086 13361531916

SECTION2 COMPOSITION/INFORMATION ON INGREDIENTS

Product name: Silicon Dioxide

| Ingredient | Concentration | CAS No. | EC No. |
|-----------------|---------------|-------------|-----------|
| Silicon Dioxide | ≥100% | 112945-52-5 | 231-545-4 |

SECTION 3 HAZARDS IDENTIFICATION

Hazards Identification: This substance is considered to be non-hazardous for transport.

EMERGENCY OVERVIEW: Irritating to eyes and respiratory system.

SECTION 4 FIRST-AID MEASURES

Skin Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. If irritation persists, call a physician.

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

SECTION 5 FIRE FIGHTING MEASURES

| | | | |
|---|---|----------------------------------|-----------------------|
| Flammable properties | Material does not burn | | |
| Lower explosion limit (LEL) (Vol%) | not applicable | Flash point (°C) | not applicable |
| Upper explosion limit (UEL) (Vol%) | not applicable | ignition temperature (°C) | not applicable |
| Fire and explosion hazards | Electrostatic charging is possible. Ensure all parts of equipment are well earthed. Use inert gas when working with combustible and explosive liquids. | | |
| extinguishing agent | Material does not burn. Use extinguishing measures appropriate to the source of fire. | | |

SECTION 6 ACCIDENTAL RELEASE MEASURES

Precautions Avoid dust formation. Do not breathe dust. Cover any spilled material in accordance with regulations to prevent dispersal by wind.

Fire fighting procedures: Fire fighters should wear full protective clothing including a self contained breathing apparatus.

Environmental measures: In accordance with the local related regulatory.

Methods for cleaning up: Damp down dust and fill into containers.

SECTION 7 HANDLING AND STORAGE

Handling:

Wear appropriate protective clothing and chemical safety gloves. Avoid breathing dust. Avoid contact with eyes, skin. Mechanical exhaust required. Keep away from ignition sources, heat and flame.

Incompatibilities: strong oxidizing agents, strong acids, strong bases, hydrogen fluoride and foods. No smoking at working site.

Storage:

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in tightly closed container. Incompatibility: strong oxidizing agents, strong acids, strong bases, hydrogen fluoride and foods.

SECTION 8 EXPOSURE CONTROL/PPE

| | | |
|-----------------------------|---|----------------|
| Plant healthy | China MAC(mg/m3) | 2mg/m3 |
| | The USA TVL-TWA | 10mg/m3 |
| | The USA TLV-STEL | 3mg/m3 |
| Engineering controls | Use only with adequate ventilation .need Local exhaust ventilation, To maintain concentration below TLV. | |

| | |
|--|---|
| Respiratory protection | In case of dust formation: A NIOSH approved particulate respirator with a P95 or higher rating. |
| Eye protection | Recommendation: Safety glasses with side shields or chemical safety goggles |
| Body protection | Avoid to contact with skin |
| Hand protection | Recommendation: rubber gloves |
| Other protective clothing or equipment | Wear antistatic clothes and boot. Barrier cream may be used to prevent dryness of skin. |

SECTION 9 PHYSICAL /CHEMICAL PROPERTIES

| | | | |
|--------------------------------|-----------------------------|---|--------------------------|
| Melting point (°C) | 1700 | Boiling point/the range of Boiling point (°C) | |
| Density | 2.2g/cm ³ (20°C) | Bulk density | 30-100 kg/m ³ |
| pH-Value | 3.6-5.6 | | |
| Water solubility / miscibility | Virtually insoluble at 20 ° | | |
| Enthalpy (kJ/mol) | | Decomposition temperature (°C) | > 150 |
| Critical temperature (°C) | | Critical press (MPa) | |

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Moisture.

Materials to Avoid: Strong oxidizing agents, strong acids, strong bases, hydrogen fluoride.

Hazardous Polymerization: will not occur.

Hazardous Decomposition Products: Silicon oxide, Silicon dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicity Data: Oral Rat LD50 3160mg/kg.

Irritation Data: Irritating to eyes and respiratory system.

Target Organ(s) or System(s): Lungs. IARC Carcinogen List: Rating Group 3

SECTION 12 ECOLOGICAL INFORMATION

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of substance:

Spent or discarded material is not belong to hazardous waste. Contact a licenced professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environment regulations.

SECTION 14 TRANSPORT INFORMATION

DOT

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

ADR / RID Class: None

Non-Hazardous for transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

IMO

Non-hazardous for Sea Transport: Non-hazardous for sea transport.

UN Number: None

SECTION 15 REGULATORY INFORMATION

EU Additional Classification:

Hazard symbols: Xi

R: 36/37

Risk Statements: Irritating to eyes and respiratory system.

S: 26 37/39

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective gloves and eye/face protection.

SECTION 16 OTHER INFORMATION

Date: July 22, 2021

**Department: Shanghai Research Institute of Chemical Industry Testing Center
Shanghai Classification and Testing Center of Dangerous Chemical for State Work Safety
Tel(Fax): 8621-52815377/52800971/52807275/52811034**

Revision: 0

Other Information

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