Material Safety Data Sheet

FUSED SILICA (JSG1, JGS2, JGS3)

Date : 04/06/2024 Version:1.0

Product and general description

Chemical name: Fused Silica (SiO_2)
Commercial names: JGS1, JGS2, JGS3
Type of material: inert glass
Origin: China
Recommender usage: optical component, industrial usage, research equipment, etc..
Restriction of use: none identified

Hazards identification

GHS Classification

Not classified as hazardous according to OSHA Hazard Communication Standards (29.CFR.1910.1200)

Recommended labellization

- Signal word: none
- Hazard statement: none
- Precautionary Statement:
  - Do no breathe dust (P260)

Other hazards

- Broken fused silica parts may cut skin, wear gloves when handling.

Ingredients, composition

Component	CAS Number	Concentration
Fused silica	60676-86-0	>99%

First aid measures

- Inhalation: Move person to fresh air. If beathing difficulties consult medical personnel.
- Skin contact: Wash with clean water, if skin cuts seek medical attention.
- Eye contact: rinse thoroughly immediately.
- Ingestion: Do not induce vomiting, rinse mouth with water and if necessary visit a specialist.

Fire fighting Measures

Not flammable, no hazardous combustion.

Accidental release Measure

- Personal protection: Avoid creating dust
- Environment protection: Do not let product enter drain
- Cleaning up: Shovel to suitable container

Handling and storage

- Handling: Avoid breathing dust, attention to broken parts that may cut.
- Storage: No particular requirement. Powder should be kept in dry environment.

Exposure controls

- Dust exposure limits:
  - OSHA PEL: 50µg/m3
  - ACGIH TLV: 0.025 mg/m3
- Hand protection: wear gloves
- Eye protection: wear safety glass with side shields

Physical and Chemical properties

- Appearance: transparent solid
- Odor: none
- pH : NA
- Melting point (1710°C)
- Fusion point (2230°C)
- Flammability: not flammable
- Relative density: 2.2 g/cm3

Stability and reactivity

- Chemical stability: stable

- Condition to avoid: generating dust
- Incompatible materials: Hydrofluoric acid
- Hazardous decomposition products: none known

Toxicological information

- Acute toxicity: not classified
- Skin corrosion/irritation: may cause mechanical irritation
- Eye damage: may cause mechanical irritation
- Respiratory or skin sensitivity: not classified
- Germ cell mutagenicity: not classified
- Carcinogenicity: not classified
- Reproductive toxicity: not classified
- STOT-single exposure: not classified
- STOT-Repeated exposure: may cause breathing issue if prolonged exposure to dust
- Aspiration hazard: not classified

Ecological information

- Toxicity: no
- Persistence and degradability: inert
- Bioaccumulation: no
- Mobility in soil: no
- Other effects: no

Disposal considerations

- Waste treatment: refer to local regulations
- Contaminated packaging: NC

Transport information

- Not applicable