

Material Safety Data Sheet (MSDS)

Product Name: Silicon Dioxide Technical Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Silicon Dioxide (Technical Grade)
- **Synonyms:** Silica, Synthetic Amorphous Silica, Precipitated Silica
- **CAS No.:** 7631-86-9
- **EC No.:** 231-545-4
- **Intended Use:** Industrial applications, fillers, rubber, plastics, coatings, construction, adhesives, desiccant.

2. Hazard Identification

- **Classification (GHS):** Not classified as hazardous.
- **Hazard Statements:**
 - Dust may cause mechanical irritation to eyes and respiratory tract.
- **Precautionary Statements:**

- Avoid breathing dust.
- Use adequate ventilation.
- Wear protective mask, gloves, and goggles.

3. Composition / Information on Ingredients

- **Chemical Name:** Silicon Dioxide (SiO₂)
- **Purity:** ≥ 99%
- **CAS No.:** 7631-86-9
- **Impurities:** Trace inorganic oxides, non-hazardous.

4. First Aid Measures

- **Inhalation:** Move person to fresh air, seek medical attention if breathing discomfort continues.
- **Skin Contact:** Wash with soap and water. Non-irritant.
- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth with water, no special treatment required.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Use water spray, dry chemical, CO₂, or foam.
- **Special Hazards:** Product is non-combustible. Packaging materials may burn.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus.

6. Accidental Release Measures

- Avoid creating dust.
- Sweep or vacuum material into suitable container.
- Prevent entry into drains.
- Use PPE including dust mask and gloves.

7. Handling and Storage

- **Handling:** Avoid inhalation of dust. Ensure good ventilation.
- **Storage:** Store in dry, cool, and well-ventilated place. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:**
 - OSHA PEL: 6 mg/m³ (total dust)
 - ACGIH TLV: 10 mg/m³ (inhalable particles, not otherwise classified)
- **Personal Protection:**
 - Respiratory: Dust mask/respirator (N95 or equivalent)
 - Hands: Protective gloves
 - Eyes: Safety goggles
 - Hygiene: Wash thoroughly after handling

9. Physical and Chemical Properties

- Appearance: White, amorphous powder
- Odor: Odorless
- Melting Point: ~ 1710 °C
- Density: ~ 2.2 g/cm³
- Solubility: Insoluble in water
- pH (suspension): 6–8
- Flash Point: Not applicable (non-flammable)

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Reactivity:** Non-reactive.

- **Incompatible Materials:** Hydrofluoric acid, strong bases.
 - **Hazardous Decomposition:** None under normal use.
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11. Toxicological Information

- **Acute Toxicity:** Not toxic by oral, dermal, or inhalation exposure.
 - **Irritation:** May cause mild mechanical irritation.
 - **Carcinogenicity:** Amorphous silica is **not classified as carcinogenic** (unlike crystalline silica).
 - **Repeated Exposure:** Prolonged inhalation of high concentrations may cause respiratory discomfort.
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12. Ecological Information

- **Ecotoxicity:** Non-toxic to aquatic and terrestrial life.
 - **Persistence and Degradability:** Inorganic material, persistent but not harmful.
 - **Bioaccumulation:** None expected.
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13. Disposal Considerations

- Dispose of in accordance with local, state, and national regulations.
 - Can be disposed of as non-hazardous solid waste.
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14. Transport Information (Detailed)

UN Number: Not applicable (non-hazardous).

UN Proper Shipping Name: Not regulated.

Transport Hazard Class: Not classified.

Packing Group: Not assigned.

Marine Pollutant: No.

Environmental Hazards: Not applicable.

Special Precautions:

- Transport in tightly closed containers to avoid dust release.
 - Ensure packaging is intact to prevent spillage.
 - No restrictions under **ADR/RID (road/rail), IMDG (sea), or IATA (air)** regulations.
Regulatory Status: Product is not classified as dangerous goods for transport.
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15. Regulatory Information

- **OSHA (USA):** Not hazardous.
 - **REACH (EU):** Exempted substance (naturally occurring).
 - **TSCA (USA):** Listed.
 - **India:** Not classified as hazardous under MSIHC Rules.
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16. Other Information

- **Disclaimer:** The information provided is believed to be accurate and represents the best knowledge currently available. It is intended as guidance for safe handling, storage, and use of the product and is not to be considered a warranty or quality specification.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.