



Health	1
Fire	0
Reactivity	0
Personal Protection	E

Material Safety Data Sheet

Silicon Dioxide

1: Chemical Product and Company Identification

Product Name : Silicon Dioxide

Catalog Code : 41900215

CAS# : 7631-86-9

RTECS# : Not available.

TSCA : Not available.

CI# : Not available.

Chemical Name : Silicon Dioxide

Chemical Formula : SiO₂

Synonym :

Fused quartz;
fused silica;
silica;
quartz glass;
quartz sand;
vitreous quartz

Contact Information :

bioWORLD

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Order Online : <http://www.bio-world.com/>

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In Case of a chemical emergency:

Contact local hospital

For non-emergency assistance:

Call 1-800-860-9729

2: Composition and Information on Ingredients

Name	CAS#	% of weight
Silicon Dioxide	7631-86-9	>98

Toxicological Data :

Not available.

3: Hazards Identification

Potential Acute Health Effects : May be harmful if inhaled or swallowed. May cause respiratory tract irritation. Skin May be harmful if absorbed through skin. May cause skin irritation or eye irritation.

Potentials Chronic Health Effects :

Carcinogenic Effects : IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Silicon dioxide).

Mutagenic Effects : Not available.

Teratogenic Effects : Not available.

Developmental Toxicity : Not available.

4: First Aid Measures

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

Skin Contact : In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician if irritation persists.

Serious Skin Contact : Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek

medical attention.

Inhalation : If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Serious Inhalation : If breathed in, move person into fresh air. If not breathing give artificial respiration. Get medical attention.

Ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician.

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

5: Fire and Explosion Data

Flammability of the Product : Not available.

Auto-Ignition Temperature : Not available.

Flash Points : Not available.

Flammable Limits : Not available.

Product of Combustion : Silicon oxides.

Fire Hazards in Presence of Various Substances : Not available.

Explosion Hazards in Presence of Various Substances : Not available.

Fire Fighting Media and Instructions :

SMALL FIRE : Dry chemical powder.

LARGE FIRE : Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

Special Remarks on Fire Hazards : Not available.

Special Remarks on Explosion Hazards : Not available.

6 : Accidental Release Measures

Small Spill : Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Large Spill : Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7: Handling and Storage

Precautions : Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8: Exposure Controls/Personal Protection

Engineering Controls : Use mechanical exhaust or laboratory fumehood to avoid exposure.

Personal Protection : Respiratory : Government approved respirator.

Hand: Chemical resistant gloves.

Eye: Safety glasses.

Personal Protection in Case of a Large Spill : Splash goggles. Full suit. Boots. Dust respirator. Gloves.

Exposure Limits : TWA: 10 (mg/m³) from ACGIH (TLV) [United States] Inhalation Total. TWA: 6 (mg/m³) from OSHA (PEL) [United States]

9: Physical and Chemical Properties

Physical State and Appearance : Liquid

Odor : Not available.

Taste : Not available.

Molecular Weight : 60.08 g/mol

Color : White

PH Value : Not available.

Boiling Point : Not available.

Melting Point : > 1.600 °C - lit.

Critical Temperature : Not available.

Specific Gravity : Not available.

Vapour Pressure : Not available.

Vapor Density : Not available.

Volatility : Not available.

Odor Threshold:Not available.

Water/Oil Dist. Coeff : Not available.

Ionicity(in Water) : Not available.

Dispersion Properties : Not available.

Solubility : Insoluble in water.

10: Stability and Reactivity Data

Stability : Stable under recommended storage conditions.

Instability Temperature : Not available.

Conditions of Instability : Not available.

Incompatibility with various substances : Water, Acids, Oxidizing agents, Strong oxidizing agents.

Corrosivity : Not available.

Special Remarks on Reactivity : Not available.

Special Remarks on Corrosivity : Not available.

Polymerization : Not available.

11: Toxicological Information

Routes of Entry : Skin contact. Eye contact. Ingestion. Inhalation.

Toxicity to Animals : Not available.

Chronic Effects on Humans : Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Other Toxic Effects on Humans : Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Silicon dioxide)

Special Remarks on Toxicity to Animals : Not available.

Special Remarks on Chronic Effects on Humans : Not available.

Special Remarks on other Toxic Effects on Humans : Not available.

12: Ecological Information

Ecotoxicity : Not available.

BOD5 and COD : Not available.

Product of Biodegradation : Not available.

Toxicity of the Products of Biodegradation : Not available.

Special Remarks on the Products of Biodegradation : Not available.

13: Disposal Considerations

Waste Disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14: Transport Information

DOT Classification :

Not a DOT controlled material.

IATA Classification :

Not an IATA controlled material.

IMDG Classification :

Not a IMDG controlled material.

Identification : Not available.

Special Provisions for Transport : Not available.

15: Other Regulatory Information

Federal and State Regulations : Not available.

Other Regulations : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Other Classifications : OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS:

This product is on the

European Inventory of Existing Commercial Chemical Substances.

WHMIS(Canada) : Not WHMIS controlled.

DSCL(EEC) : This product is not classified according to the EU regulations.

HMIS(U.S.A) :

Health Hazard : 1

Fire Hazard : 0

Reactivity : 0

Personal Protection : E

National Fire Protection Association (U.S.A) :

Health : 1

Flammability : 0

Reactivity : 0

Specific hazard : Not available.

Protective Equipment : Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety goggles.

16: Other Information

References : Not available.

Other Special Considerations :

Created : Not available. **Last Updated** : 05-27-2014 3:00:00 PM

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