

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Silicon Dioxide

Chemical Formula: SiO₂

Manufacturer Item Number: SI-0020

Manufacturer: Lorad Chemical Corporation
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2. HAZARD IDENTIFICATION

Signal Word: Danger

Pictograms:



Hazard Statements: H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements: P260 Do not breathe dust / fume / gas / mist / vapors / spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P314 Get medical advice / attention if you feel unwell.
P501 Dispose of contents / container to an approved waste disposal plant.

HMIS Health Ratings (0-4)

- Health: 1
- Flammability: 0
- Physical: 0

3. COMPOSITION

Additional Names: Silicon(IV) Oxide

Percentage: 100wt%

CAS #: 7631-86-9

EC #: 231-545-4

4. FIRST AID PROCEDURES

General Treatment Consult a physician. Show this SDS to the doctor in attendance. Move out of dangerous area.

Special Treatment:	No data available.
Important Symptoms:	Most important symptoms are described in Section 2.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin:	Wash off with soap and plenty of water. Consult a physician.
Eyes:	Flush eyes with water as a precaution.

5. FIREFIGHTING MEASURES

Flammability:	
Special Hazards from Substance:	No data available.
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled:	Use personal protective equipment. Avoid dust formation, breathing in vapors, mist, dust, or gas. Pick up and arrange disposal without creating dust. Sweep and shovel. Keep in suitable, closed containers for disposal.
Environmental Precautions:	Do not let product enter drains.

7. HANDLING AND STORAGE

Handling Conditions:	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage Conditions:	Keep container tightly closed in a dry well-ventilated place.
Work / Hygienic Maintenance:	Further processing of solid materials may result in formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before processing occurs.
Ventilation:	Keep well ventilated.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits:	6 mg/m ³ (Time-weighted Average 80mg/m ³)
Threshold Limit Value:	No data available.
Special Equipment:	No data available.
Respiratory Protection:	Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use dust mask. Use respirators and components tested and approved by appropriate government standards.
Protective Gloves:	Handle with gloves. Gloves must be inspected prior to use. Use proper gloves removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection:	Safety glasses. Use equipment for eye protection tested and approved under government standards such as NIOSH (US) or EN 166(EU).
Body Protection:	Protective work cloths. Wear close-toed shoes and long sleeves/pants.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:	white
Forms:	granules
Odor:	No data available.
Water Solubility:	No data available.
Boiling Point:	>2,200°C (>3,992°F)
Melting Point:	>1,713°C (>3,115°F)
Flash Point:	No data available.
Autoignition Temperature:	No data available.
Density:	2.196 g/cm ³ as 20°C
Molecular Weight:	60.08 g/mol

10. REACTIVITY

Stability:	Stable under recommended storage conditions.
Reacts with:	Reacts violently with interhalogens
Incompatible Conditions:	Strong oxidizing agents. Strong acids and strong bases.
Hazardous Decomposition Products:	Silicon oxides

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:	
- Eyes	Irritating effect.
- Skin	Irritating to skin and mucous membranes.
- Ingestion	No data available.
- Inhalation	No data available.
- Chronic	No data available.
Signs and Symptoms:	No data available.
Aggravate Medical Conditions:	This substance is classified as specific target organ toxicant after repeated exposure.
Median Lethal Dose:	No data available.
Carcinogen:	Tumorigenic, reproductive, and carcinogenic effects have been observed on tests with laboratory animals. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	No data available.
Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available.
Notes:	No data available.

13. DISPOSAL CONSIDERATIONS

Disposal:	Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of any unused products.
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14. TRANSPORTATION DATA

Hazardous:	DoT: Not Dangerous Goods IMDG: Not Dangerous Goods IATA: Not Dangerous Goods
Pictogram:	N/A
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A

15. REGULATORY INFORMATION

SARA 302 Components	No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Chronic Health Hazard
Massachusetts Right to Know Components	Silicon dioxide (CAS No. 7631-86-9)
Pennsylvania Right to Know Components	Silicon dioxide (CAS No. 7631-86-9)
New Jersey Right to Know Components	Silicon dioxide (CAS No. 7631-86-9)
California Prop. 65 Components	This product does not contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Copyright 2017 Lorad Chemical Corporation. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety standards. It does not represent a guarantee of the properties of the product. Lorad Chemical Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision Date: 08/01/2017