



Material Data Safety Sheet

Quick Identifier: Silicon Oxide

I. PRODUCT IDENTIFICATION

Trade Name:	Silicon Oxide	Formula:	SiO ₂
Synonyms:		Molecular Weight:	
CAS #:	7631-86-9		

II. HAZARDOUS INGREDIENTS

<u>Hazardous Components:</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>	<u>Other Limits:</u>
Silicon Oxide	.1 mg/m ³ Total dust .05 mg/m ³ Respirable dust	N/A	N/A
Sec. 302 (EHS):	No	Sec. 304 RQ:	No
HMIS Ratings (0-4):	1	Flammability:	0
Health:		Reactivity:	0
HMIS Protective Equipment:	E: glasses, gloves, dust resp.		

III. PHYSICAL DATA

Boiling Point:	2230 C	Melting Point:	3000 F
Specific Gravity (H₂O=1):	2.1	Vapor Density (Air=1):	Not determined
Vapor Pressure (mm Hg):	Not determined	Evaporation Rate:	N/A
% Volatiles by Volume:	N/A	Solubility in H₂O:	N/A

Appearance and Odor: Off white color; no odor.

IV. FIRE AND EXPLOSION HAZARDS DATA

Flash Point/Method:	Not applicable		
Explosive Limits:	LEL: N/A	UEL: N/A	
Extinguishing Media:	N/A		
Special Fire Fighting Procedures:	N/A		
Unusual Fire and Explosion Hazards:	Melting point of material is over 3000 F		

V. HEALTH HAZARD INFORMATION

Routes of Entry:	Inhalation, Skin and Eyes.		
Target Organs:	N/A		
Carcinogenicity: NTP:	No	IARC Monographs:	No
LD50/LC50:	No toxicity data recorded.		
	OSHA Regulated:	No	

Health Hazards (Acute and Chronic):

Inhalation:

Acute: If inhaled toxic. Coughing, dyspnea and wheezing may arise.

Chronic: Pneumoconiosis, pulmonary fibrosis and silicosis may arise.

Ingestion:

Acute: N/A

Chronic: N/A

Skin:

Acute: Abrasive irritation may occur.

Chronic: N/A

Eye:

Acute: Abrasive irritation may occur.

Chronic: N/A

Signs and Symptoms of Exposures:

Inhalation: N/a

Ingestion: N/a

Skin: N/A

Eye: N/a

Medical Conditions Generally Aggravated by Exposure: Allergies

EMERGENCY AND FIRST AID PROCEDURES:

This material is a solid article and has no health hazard unless caused to dust by dry cutting or grinding. Have proper ventilation and wear dust masks when cutting or grinding. Wet cutting and/or grinding will prevent dusting of product.

VI. REACTIVITY DATA

Stability: Stable
Incompatibility (Material to avoid): N/A
Hazardous Decomposition Products: N/A
Hazardous Polymerization: Will not occur
Conditions to Avoid: None

VII. SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled: Articles are nonhazardous unless cut and/or ground. These procedures should be done in a water stream and with dust collection. An OSHA approved dust mask should be worn if adequate dust collection is not available.
Waste Disposal Method: N/A
Other Precautions: N/A
Precautions to Be Taken in Handling and Storing: Do not drop. Article may shatter.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: N/A
Ventilation: Local Exhaust: N/A
Mechanical (General): N/A
Protective Gloves: N/A
Eye Protection: N/A
Other Protective Clothing or Equipment: N/A
Work/Hygienic/Maintenance: N/A

Practices:

IX. ADDITIONAL COMMENTS

Some of the chemicals listed herein are research or experimental substances which may be toxic, as defined by various governmental regulations. In accordance with Environmental Protection Agency regulations and the Toxic Substance Control Act (TSCA), these materials should only be handled by, or under the direct supervision of a “technically qualified individual”, as defined in 40 CFR 710.2(aa).

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