



MATERIAL SAFETY DATA SHEET
COMPLIES WITH 29 CFR 1910.1200.
OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 05-2002

CHEMICAL IDENTITY

LABEL IDENTITY	SILICON DIOXIDE
CHEMICAL NAME/SYNONYMS	SILICON DIOXIDE
FORMULA	SiO₂
CHEMICAL FAMILY	NON METAL OXIDE
HAZARDOUS INGREDIENTS	SILICON DIOXIDE
%: 100 CAS: 61790-53-2 TLV: 3.0 mg/m³ OSHA/PEL: 6.0 mg/m³	

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM AND ODOR	Clear Colorless Glass Material. No Odor.
BOILING POINT	NA
DENSITY (gm/cc)	NA
VAPOR PRESSURE	NA
% VOLATILE BY VOLUME (%)	NA
REACTION WITH WATER	NA
EVAPORATION RATE	NA
SOLUBILITY IN WATER	Insoluble
MELTING POINT (°C)	1750° C
SPECIFIC GRAVITY (g/cm ³)	2.203

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	NA
AUTOIGNITION TEMPERATURE (°C)	NA
FLAMMABILITY	Non-flammable
EXTINGUISHING MEDIA	NA
SPECIAL FIRE FIGHTING PROCEDURES	NA
UNUSUAL FIRE & EXPLOSION HAZARDS	None



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HEALTH HAZARD INFORMATION

ROUTES OF ENTRY: INHALATION: **Yes** SKIN: **No** INGESTION: **No**

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: **Persons with impaired pulmonary function may be at increased risk from exposure to amorphous silica.**

EFFECTS OF OVEREXPOSURE (acute and chronic):

INHALATION: **Prolonged inhalation of amorphous silica may produce x-ray changes in the lungs without disability.**

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: **If Amorphous Silica gets into the eyes, wash eyes immediately with large amounts of water, lifting the lower and upper lids occasionally. If irritation is present after washing, get medical attention.**

REACTIVITY DATA

STABILITY	Stable
CONDITIONS CONTRIBUTING TO UNSTABILITY	None
INCOMPATIBILITY (MATERIALS TO AVOID)	Contact with powerful oxidizing agents like fluorine, oxygen difluoride, and chlorine trifluoride can cause fires.
HAZARDOUS DECOMPOSITION PRODUCTS	NA
HAZARDOUS POLYMERIZATION	Will Not Occur
CONDITIONS TO AVOID	None

SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Clean up using normal good housekeeping standards. Avoid dusting.

WASTE DISPOSAL METHOD:

Amorphous Silica may be disposed of in a secured sanitary landfill.



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SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION	As recommended in OSHA 29 CFR 1910.134
LOCAL EXHAUST	To meet PEL Requirements
MECHANICAL (general)	To meet PEL Requirements
SPECIAL	NA
PROTECTIVE GLOVES	Recommended
EYE PROTECTION	Recommended
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:	None
WORK HYGENIC PRACTICES:	Avoid creating dust

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE: **None**
OTHER PRECAUTIONS: **None**

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NA= NOT APPLICABLE

ND= NO DATA FOUND