# MATERIAL SAFETY DATA SHEET

**COMPLIES WITH 29 CFR 1910.1200.**
**OSHA HAZARD COMMUNICATION RULE**

**DATE OF LAST REVISION:** 05-2002

## CHEMICAL IDENTITY

<table>
<thead>
<tr>
<th>LABEL IDENTITY</th>
<th>CHEMICAL NAME/SYNONYMS</th>
<th>FORMULA</th>
<th>CHEMICAL FAMILY</th>
<th>HAZARDOUS INGREDIENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SILICON DIOXIDE</td>
<td>SiO2</td>
<td>NON METAL OXIDE</td>
<td>SILICON DIOXIDE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>%: 100 CAS: 61790-53-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TLV: 3.0 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OSHA/PEL: 6.0 mg/m³</td>
</tr>
</tbody>
</table>

## PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>COLOR, FORM AND ODOR</th>
<th>Clear Colorless Glass Material. No Odor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT</td>
<td>NA</td>
</tr>
<tr>
<td>DENSITY (gm/cc)</td>
<td>NA</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>NA</td>
</tr>
<tr>
<td>% VOLATILE BY VOLUME (%)</td>
<td>NA</td>
</tr>
<tr>
<td>REACTION WITH WATER</td>
<td>NA</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>NA</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>Insoluble</td>
</tr>
<tr>
<td>MELTING POINT (°C)</td>
<td>1750° C</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (g/cm³)</td>
<td>2.203</td>
</tr>
</tbody>
</table>

## FIRE AND EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th>FLASH POINT</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTOIGNITION TEMPERATURE (°C)</td>
<td>NA</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>EXTINGUISHING MEDIA</td>
<td>NA</td>
</tr>
<tr>
<td>SPECIAL FIRE FIGHTING PROCEDURES</td>
<td>NA</td>
</tr>
<tr>
<td>UNUSUAL FIRE &amp; EXPLOSION HAZARDS</td>
<td>None</td>
</tr>
</tbody>
</table>
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
None
EQUIPMENT:
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