## CHEMICAL IDENTIFICATION

<table>
<thead>
<tr>
<th>Label Identity</th>
<th>Chemical Name/Synonyms</th>
<th>Formula</th>
<th>Chemical Family</th>
<th>Hazardsous Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABEL IDENTITY</td>
<td>SILICON CARBIDE</td>
<td>SiC</td>
<td>NON-METAL CARBIDE</td>
<td></td>
</tr>
<tr>
<td>CHEMICAL NAME/SYNONYMS</td>
<td>SILICON CARBIDE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FORMULA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEMICAL FAMILY</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CAS
- 100: 409-21-2
- TLV: TWA=10mg/m³ of total dust
- OSHA/PEL: 15mg/m³ of total dust

## PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOR, FORM AND ODOR</td>
<td>Black-Green Powder or Pieces; No Odor</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>2000°C</td>
</tr>
<tr>
<td>DENSITY (gm/cc)</td>
<td>NA</td>
</tr>
<tr>
<td>VAPOR PRESSURE @ 20°C</td>
<td>NE</td>
</tr>
<tr>
<td>% VOLATILE BY VOLUME (%)</td>
<td>NA</td>
</tr>
<tr>
<td>REACTION WITH WATER</td>
<td>None</td>
</tr>
<tr>
<td>EVAPORATION RATE (H₂O=1)</td>
<td>NA</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>Insoluble</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>2700°C</td>
</tr>
<tr>
<td>MOLECULAR WEIGHT</td>
<td>40.0855</td>
</tr>
</tbody>
</table>

## FIRE AND EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLASH POINT</td>
<td>NA</td>
</tr>
<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>Use suitable extinguishing agents for surrounding materials and type of fire.</td>
</tr>
<tr>
<td>SPECIAL FIRE FIGHTING PROCEDURES</td>
<td>Firefighters must wear full face, self-contained breathing apparatus with full protecting clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.</td>
</tr>
<tr>
<td>UNUSUAL FIRE &amp; EXPLOSION HAZARDS</td>
<td>None Recorded</td>
</tr>
</tbody>
</table>
HEALTH HAZARD INFORMATION

TOXICITY DATA

None available

HMIS RATING:

HEALTH: 1*  FLAMMABILITY: 0  REACTIVITY: 0  PERSONAL PROTECTION: C

ROUTES OF ENTRY

INHALATION: No  SKIN: No  INGESTION: No

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

Pre-existing respiratory disorders.

EFFECTS OF OVEREXPOSURE (acute and chronic):

INHALATION: Mild irritation of upper respiratory tract will occur from overexposure. Chronic exposure may lead to formation of pneumoconiosis, a fibrotic change in the lungs as lung inflammation, chest pain, difficult breathing and coughing.

DERMAL/EYE: Skin and eye contact may cause irritation due to the abrasive action of the dust.

OTHER: Silicon Carbide is considered a nuisance dust; a non-toxic material.

CARCINOGENICITY: NA  NTP:  IARC MONOGRAPHS:  OSHA REGULATE:

EMERGENCY FIRST AID PROCEDURES:

INGESTION: Dilute with large amounts of water and induce vomiting.

INHALATION: Remove to fresh air to avoid further inhalation, seek medical attention.

SKIN CONTACT: Wash affected area with soap and water, seek medical attention

EYE CONTACT: Flush eyes for at least 15 minutes with lukewarm water, seek medical.

REACTIVITY DATA

STABILITY

Stable

CONDITIONS CONTRIBUTING TO UNSTABILITY

NA

INCOMPATIBILITY (MATERIALS TO AVOID)

None Recorded

HAZARDOUS DECOMPOSITION PRODUCTS

None Recorded

HAZARDOUS POLYMERIZATION

Will Not Occur

CONDITIONS TO AVOID

None listed

SAFE HANDLING AND USE

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

Wear appropriate respiratory and protective equipment specified in section VIII-control measures. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.
WASTE DISPOSAL METHOD:
Dispose of in accordance with local, state and federal regulations.

SILICON CARBIDE
MATERIAL SAFETY DATA SHEET

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION
NIOSH/MSHA Approved Respirator
LOCAL EXHAUST
Maintain below TLV
MECHANICAL (general)
Good general ventilation is recommended.
SPECIAL
None

SPECIAL PROTECTIVE INFORMATION CONTINUED

OTHER
NA
PROTECTIVE GLOVES
Impervious Gloves
EYE PROTECTION
Safety Glasses
OTHER PROTECTIVE EQUIPMENT
Protective gear suitable to prevent contamination.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:
Store in tightly sealed container. Wash thoroughly after handling.

TRANSPORTATION REQUIREMENTS
DOT CLASS: Not Classified
UN NUMBER: NC
IMCO CLASS: NC
OTHER:

PRECAUTIONARY LABELING
Store in cool dry area.

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NA= NOT APPLICABLE    ND= NO DATA FOUND    NE= NOT ESTABLISHED