



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

DATE OF LAST REVISION: 04-04-04

CHEMICAL IDENTITY

| | |
|------------------------------------|--|
| LABEL IDENTITY | SILICON CARBIDE |
| CHEMICAL NAME/SYNONYMS | SILICON CARBIDE |
| FORMULA | SiC |
| CHEMICAL FAMILY | NON-METAL CARBIDE |
| HAZARDOUS INGREDIENTS | |
| %: 100 CAS: 409-21-2 | TLV: TWA=10mg/m3 OSHA/PEL: 15mg/m3 |
| | of total dust of total dust |

PHYSICAL AND CHEMICAL PROPERTIES

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

FIRE AND EXPLOSION HAZARD DATA

| | |
|----------------------------------|--|
| FLASH POINT | NA |
| AUTOIGNITION TEMPERATURE (°C) | NA |
| FLAMMABILITY | Non-flammable |
| EXTINGUISHING MEDIA | Use suitable extinguishing agents for surrounding materials and type of fire. |
| SPECIAL FIRE FIGHTING PROCEDURES | 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. |
| UNUSUAL FIRE & EXPLOSION HAZARDS | None Recorded |



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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.



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WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations.

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION
LOCAL EXHAUST
MECHANICAL (general)
SPECIAL

NIOSH/MSHA Approved Respirator
Maintain below TLV
Good general ventilation is recommended.
None

SPECIAL PROTECTIVE INFORMATION CONTINUED

OTHER
PROTECTIVE GLOVES
EYE PROTECTION

NA
Impervious Gloves
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.

THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL, **ANGSTROM SCIENCES** MAKE NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR THE RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

NA= NOT APPLICABLE

ND= NO DATA FOUND

NE= NOT ESTABLISHED