MATERIAL SAFETY DATA SHEET

Pure Tech
P.O. Box 1950
Brewster, New York 10509-8950
845/279-0900

Emergency Phone Numbers:
CHEMTREC: 800/424-9300
POISON CENTER: 800/562-8236

Date of Last Revision: 6/28/96

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SECTION 1
PRODUCT IDENTIFICATION

CHEMICAL NAME(S) AND SYNONYM(S): Silicon
FORMULA: Si

CHEMICAL FAMILY: Non-metal

TSCA: Product is listed.

CHEM ABSTRACT NO.: 7440-21-3
CAL. MOLECULAR WEIGHT: 28.09

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SECTION 2
INGREDIENTS/SUMMARY OF HAZARDS

<table>
<thead>
<tr>
<th>INGREDIENT(S)</th>
<th>CAS #</th>
<th>%</th>
<th>TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Metal</td>
<td>7440-21-3</td>
<td>100</td>
<td>10mg/m³</td>
<td>15mg/m³</td>
</tr>
</tbody>
</table>

(for Si as total dust)

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SECTION 3
PHYSICAL DATA

BOILING POINT (°C): 2355
DENSI TY (gm/cc): 2.32 - 2.34

VAPOR PRESSURE: NA

% VOLATILE BY VOLUME: NA

REACTI ON WITH WATER: NA

EVAPORATION RATE: NA

SOLUBILITY WITH WATER: Insoluble

MELTING POINT (°C): 1410

APPEARANCE/ODOR: Dark brown powder; no odor

OTHER:

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SECTION 4
FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT/ METHOD: NA

AUTOIGNITION TEMP (°C): NA

FLAMMABILITY: May be flammable in fine powder form

EXTINGUISHING MEDIA: ( ) Water ( ) Foam ( ) Class D Extinguisher
( ) Dry Chemical ( ) CO2
(x) Other (specify): Use suitable extinguishing agent for surrounding materials and type of fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. DO NOT USE WATER!

UNUSUAL FIRE AND EXPLOSION HAZARDS: A potentially flammable metal in the fine powder form. May generate toxic fumes if involved in a fire.

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SECTION 5
HEALTH HAZARD DATA

TOXICITY DATA: No data on this compound.

ROUTE(S) OF ENTRY: (x) Inhalation  (x) Skin  ( ) Ingestion

EFFECTS OF OVEREXPOSURE (acute and chronic)


DERMAL/EYE CONTACT: Mild irritation to the eyes. No reports of injury or illness from ingestion or skin contact.

OTHER (specify): Silicon is toxicologically inert.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Previous respiratory or dermal disorders.

CARCINOGENICITY: none  NTP: no  IARC MONOGRAPHS: no  OSHA REGULATED: no

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: Induce vomiting. Seek Medical attention.
INHALATION: Remove victim to fresh air. Administer oxygen. Seek medical attention.

SKIN: Brush material off skin. Wash affected area with soap and water.

EYES: Flush eyes with water for 15 mins. Seek medical attention.

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SECTION 6

REACTIVITY DATA

STABILITY: (x) Stable     ( ) Unstable

CONDITIONS CONTRIBUTING TO UNSTABILITY: ND

INCOMPATIBILITY (materials to avoid):

( ) Water              ( ) Combustible materials   (x) Strong bases

( ) Reducing Agents    (x) Strong oxidizing materials  (x) Strong acids

(x) Other (specify): Interhalogens, metal acetylides, alkali metal carbonates, metal hexafluorides.

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION: ( ) May occur    (x) Will not occur

CONDITIONS TO AVOID: None known

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SECTION 7

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wearing full protective clothing, isolate the area and ensure proper ventilation. Vacuum up spill and place in a container for proper disposal.

WASTE DISPOSAL METHOD: In accordance with regulations.

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SECTION 8

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION: (Specify type) NIOSH/MSHA approved respirator

VENTILATION: LOCAL EXHAUST: Adequate ventilation to keep exposure below TLV

MECHANICAL (General): Recommended
SPECIAL:

PROTECTIVE GLOVES: Recommended

EYE PROTECTION: (x) Safety Glasses with Side Shields
     ( ) Chemical Workers Dust-Proof Goggles (under dusting conditions)
     ( ) Gas-Tight Goggles or Equivalent
     ( ) Other (specify):

OTHER PROTECTIVE EQUIPMENT: Maintain sink, safety shower and eyewash fountain in the work area. Wear full protective clothing at all times.

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SECTION 9
SPECIAL PRECAUTIONS AND TRANSPORTATION REGULATIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in tightly closed containers in a cool, dry place. Wash hands and face thoroughly.

TRANSPORTATION REQUIREMENTS:
     DOT CLASS: Flammable (powder form)
     UN NUMBER: 1346
     IMCO CLASS: 4.1
     OTHER: SPC

ND = No Data Found       NA = Not Applicable

MATERIAL SAFETY DATA SHEET

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