

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

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SECTION 1
PRODUCT IDENTIFICATION

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

CHEMICAL FAMILY: Non-metal CHEM ABSTRACT NO.: 7440-21-3

TSCA: Product is listed. CAL. MOLECULAR WEIGHT: 28.09

SECTION 2
INGREDIENTS/SUMMARY OF HAZARDS

<u>INGREDIENT(S)</u>	<u>CAS #</u>	<u>%</u>	<u>TLV</u>	<u>OSHA PEL</u>
Silicon Metal (for Si as total dust)	7440-21-3	100	10mg/m3	15mg/m3

SECTION 3
PHYSICAL DATA

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

VAPOR PRESSURE: NA % VOLATILE BY VOLUME: NA

REACTION WITH WATER: NA EVAPORATION RATE: NA

SOLUBILITY WITH WATER: Insoluble MELTING POINT (°C): 1410

APPEARANCE/ODOR: Dark brown powder; no odor

OTHER:

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 () CO(2)

(x) Other (specify): Use suitable extinguishing

agenfor 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.

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)

INHALATION: Mild pulmonary irritation. A nuisance dust.

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.

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

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 insure proper ventilation.

Vacuum up spill and place in a container for proper disposal.

WASTE DISPOSAL METHOD: In accordance with regulations.

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.

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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