

MATERIAL SAFETY DATA SHEET

Pure Tech
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Last Revision: 10/89

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

SECTION 1
PRODUCT IDENTIFICATION

CHEMICAL NAME(S) AND SYNONYM(S): Germanium FORMULA: Ge
CHEMICAL FAMILY: Element CHEM ABSTRACT NO.: 7440564
TSCA: Product is listed. CAL. MOLECULAR WEIGHT:

SECTION 2
INGREDIENTS/SUMMARY OF HAZARDS

<u>INGREDIENT(S)</u>	<u>CAS #</u>	<u>%</u>	<u>TLV</u>	<u>OSHA PEL</u>
Not Applicable				

SECTION 3
PHYSICAL DATA

BOILING POINT (°F) : 5126 DENSITY (gm/cc): 5.323
VAPOR PRESSURE: N/A % VOLATILE BY VOLUME: N/A
REACTION WITH WATER: None EVAPORATION RATE: N/A
SOLUBILITY WITH WATER: Insoluble MELTING POINT (°C): 936
APPEARANCE/ODOR: Grayish white metal, odorless.
OTHER:

SECTION 4
FIRE AND EXPLOSION HAZARD DATA
FLASHPOINT/METHOD: N/A

AUTOIGNITION TEMP (°C): N/A
FLAMMABILITY: Non-flammable
EXTINGUISHING MEDIA: (x) Water () Foam () Class D Extinguisher
(x) Dry Chemical (x) CO(2)
() Other (specify):

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION 5

HEALTH HAZARD DATA

TOXICITY DATA: Considered to be of low toxicity.

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

EFFECTS OF OVEREXPOSURE (acute and chronic)

INHALATION: Unknown.

DERMAL/EYE CONTACT: May be a mild irritant.

OTHER (specify):

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None

CARCINOGENICITY: None NTP: IARC MONOGRAPHS: OSHA REGULATED:

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:

INCOMPATIBILITY (materials to avoid):

() Water () Combustible materials () Strong bases
() Reducing Agents () Strong oxidizing materials () Strong acids
(x) Other (specify): Bromine, chlorine, fluorine, oxygen, potassium chlorate and potassium when Germanium is heated.

HAZARDOUS DECOMPOSITION PRODUCTS: None

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: Recommended
MECHANICAL (General): Germanium Fractures
SPECIAL:

PROTECTIVE GLOVES: Rubber Gloves

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: No specific requirements.

DOT CLASS:

UN NUMBER:

IMCO CLASS:

OTHER:

ND = No Data Found

NA = Not Applicable

MATERIAL SAFETY DATA SHEET

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