

## SAFETY DATA SHEET

### SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Bis(Trimethylsilyl)Telluride

FORMULA: C<sub>6</sub>H<sub>18</sub>TeSi<sub>2</sub>

CAS NO: 4551-16-0

SYNONYMS: Hexamethyldisilatellurane

**Intended Use: For R&D use only.**

MANUFACTURER:

NOVA-KEM  
N115W19392 EDISON DRIVE  
GERMANTOWN, WI 53022, USA

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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC 1-800-424-9300  
CHEM-TREC INTERNATIONAL: +1-703-741-5500

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### SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

**GHS CLASSIFICATION:**

Flammable Liquids (Category 4)

Acute Toxicity, Oral (Category 3)

Acute Toxicity, Inhalation (Category 3)

Pictogram



Signal Word

Danger

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

### Hazard Statements

H227	Combustible liquid
H301+H331	Toxic if swallowed or if inhaled

### Precautionary Phrases

P210	P210 - Keep away from heat, ignition sources. - No smoking
P261	P261 - Avoid breathing vapors
P264	P264 - Wash hands thoroughly after handling
P270	P270 - Do not eat, drink or smoke when using this product
P271	P271 - Use only outdoors or in a well-ventilated area P330 - Rinse mouth
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P310	If swallowed: Immediately call a doctor
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing P311 - Call a doctor
P370+P378	In case of fire: Use carbon dioxide (CO <sub>2</sub> ), dry powder to extinguish
P403+P233	Store in a well-ventilated place. Keep container tightly closed
P403+P235	Keep in a cool place
P405	Store locked up
P501	Dispose of contents/container to licensed waste disposal facility.

### HMIS Ratings (SCALE 0-4):

Health: 4

Flammability: 2

Reactivity: 1

SPECIAL: WATER REACTIVE

### NFPA Rating:

Health: 4

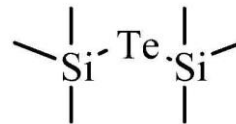
Fire: 2

Reactivity: 1

SPECIAL: WATER REACTIVE

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name: Bis(Trimethylsilyl)Telluride  
Synonyms: Hexamethyldisilatellurane  
Formula: C<sub>6</sub>H<sub>18</sub>TeSi<sub>2</sub>  
CAS #: 4551-16-0  
Molecular weight: 273.98 g/mol  
Purity: >98%



## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Remove contacts if easily possible. Get medical advice/attention.

**SKIN EXPOSURE:** Wash off immediately with plenty of water for at least 15 minutes. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay.

**INHALATION:** Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. If not breathing administer CPR. If having trouble breathing give oxygen if available. Seek immediate medical attention.

**INGESTION:** Never give anything by mouth to an unconscious person. Turn victims head to the side. Seek immediate medical attention.

## SECTION 5 FIREFIGHTING MEASURES

### EXTINGUISHING MEDIA:

Suitable Dry chemical or carbon dioxide.

Unsuitable Do Not Use Water.

### HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:

Material readily ignited with flame, sparks, friction or heat. Burning material may release toxic and corrosive fumes.

## SECTION 5 FIREFIGHTING MEASURES (Cont.)

### ADVICE FOR FIRE FIGHTERS:

Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Evacuate personnel to safe area. Wear chemical resistant/ fire-retardant gloves, chemical resistant/flammable resistant suit and boots, and self-contained breathing apparatus. Remove all sources of ignition.

### ENVIRONMENTAL PRECAUTIONS

Do not allow product enter drains or streams.

### METHODS AND MATERIALS

Spillage of the material can create widespread odor problem. Small spills can be absorbed into vermiculite or other suitable absorbent. Odor can be attenuated by slurring material adsorbed onto vermiculite with 3-5% aqueous sodium hypochlorite (bleach). Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools.

## SECTION 7 HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Store in a cool, dry, well-ventilated area. Causes severe burns. Do not breathe vapor/fumes. Avoid contact with skin and eyes. Keep away from sources of ignition. No smoking. Prevent build up of electrostatic charge.

### CONDITIONS FOR SAFE STORAGE

Keep container tightly closed in a dry and well-ventilated place. Store in a cool place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Protect from humidity and water. Keep container tightly sealed.

**INCOMPATIBILITIES:** Keep away from water, moisture/humidity in atmosphere.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

#### Bis(trimethylsilyl)telluride (4551-16-0)

USA OSHA      OSHA PEL (TWA) (mg/m<sup>3</sup>)      0.1 mg/m<sup>3</sup> (as Te)

### APPROPRIATE ENGINEERING CONTROLS

Handle in an enclosing hood with exhaust ventilation. Provide local exhaust or general room ventilation. Mechanical with caustic scrubber is recommended.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

### PERSONAL PROTECTIVE EQUIPMENT

**EYE PROTECTION:** Approved safety glasses w/side shields, or safety goggles and face shield. **Contact lenses should not be worn.**

**SKIN PROTECTION:** Wear appropriate chemical resistant gloves, rubber, neoprene

**VENTILATION:** Chemical fume hood.

**RESPIRATOR:** Use respirators and components tested and approved under appropriate government shows air purifying respirators are appropriate use a full-face respirator with multi-purpose combination or type ABEK respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

**ADDITIONAL PROTECTION:** DANGER! Water/Moisture reactive. Avoid contact with skin, eyes, clothing, shoes. Do not inhale vapors. Use with adequate ventilation. Use in a controlled environment. Avoid contact with water, Moisture, friction, heat, flames and sparks. Eyewash and safety shower in area capable of sustained flushing. Do not eat, drink or smoke in area.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Deep. Straw to amber Liquid.

**FORMULA MASS:** 273.98 g/mol

**ODOR:** Strong. Stench.

**ODOR THRESHOLD:** No data available

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

**pH:** No data available

**MELTING POINT/ FREEZING POINT:** 13 - 14 °C / Not data available

**BOILING POINT:** 74 °C @ 11 mm Hg

**FLASH POINT:** > 65 °C

**EVAPORATION RATE:** Not data available

**UPPER/LOWER FLAMMABILITY/EXPLOSION LIMITS:** No data available

**VAPOR PRESSURE at 20 deg. C:** ~ 1 mm Hg

**VAPOR DENSITY (air = 1):** > 1

**SPECIFIC GRAVITY:** No data available

**AUTO-IGNITION TEMPERATURE:** No data available

**DECOMPOSITION:** No data available

**VISCOSITY:** No data available

**Volatile Organic Compound:** > 97 %

**SOLUBILITY IN WATER:** Insoluble in water. Reacts with water.

## SECTION 10 STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable in sealed containers stored under moisture free atmosphere.

**CONDITIONS TO AVOID:** Extreme temperatures, heat, flames, and sparks. Exposure to moisture.

**INCOMPATIBILITY:** Moisture. Water.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide. Carbon monoxide. Hydrogen telluride. Organic fumes.

Silicon dioxide.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Oral: Toxic if swallowed. Inhalation: Vapor: Toxic, if inhaled.

**Bis(trimethylsilyl)telluride (4551-16-0)**

ATE US (oral) 100.000 mg/kg body weight

ATE US (vapors) 3.000 mg/l/4h

**SKIN CORROSIVE/IRRITANT:** No data available

**SEROUS EYE DAMAGE/IRRITATION:** No data available

**RESPIRATORY OR SKIN SENSITIZATION:** No data available

**GERM CELL MUTAGENICITY:** No data available

**CARCINOGENICITY:** No data available.

**REPRODUCTIVE TOXICITY:** No data available

**STOT-Single Exposure:** No data available

**STOT-Repeated Exposure:** No data available

**ASPIRATION HAZARD:** No data available

**Potential Adverse human health effects and symptoms:** Even at less than 0.1mg Te/m<sup>3</sup> can impart a garlic-like odor to the breath which can take weeks to subside.

## SECTION 12 ECOLOGICAL DATA

**TOXICITY:** No data available

**PERSISTENCE AND DEGRADABILITY:** No data available

**BIOACCUMULATIVE POTENTIAL:** No data available

**MOBILITY IN SOIL:** No data available

**OTHER ADVERSE EFFECTS:** No data available

## SECTION 13 DISPOSAL CONSIDERATIONS

Incinerate. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.

## SECTION 14 TRANSPORTATION DATA

Tellurium compound, n.o.s. (Bis(Trimethylsilyl)Telluride)

Class 6.1 - Poisonous materials 49 CFR 173.132

UN3284

PG III

IATA and DOT Regulated

: 6.1 - Poison



Marine Pollutant: No data available

## SECTION 15 REGULATORY INFORMATION

INDUSTRIAL SAFETY AND HEALTH ACT: Title compound not listed.

Toxic Substances Control Act: CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States. Not listed on the United States TSCA (Toxic Substances Control Act) inventory.

DANGEROUS MATERIAL SAFETY CONTROL ACT:

Title compound not listed.

WASTES MANAGEMENT ACT: Title compound not listed.

OTHER REQUIREMENTS IN DOMESTIC AND OTHER COUNTRIES:

U.S. - California - Proposition 65 - Carcinogens List No

U.S. - California - Proposition 65 - Developmental Toxicity No

U.S. - California - Proposition 65 - Reproductive Toxicity - Female No

U.S. - California - Proposition 65 - Reproductive Toxicity - Male No

## SECTION 16 OTHER INFORMATION

Abbreviations and acronyms: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development

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SDS DEPT