

# MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** Tetramethylgermanium  
**CAS #:** 865-52-1  
**FORMULA:** (CH<sub>3</sub>)<sub>4</sub>Ge  
**SYNONYM:** Germanium, tetramethyl

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	865-52-1	100	no data	no data

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** Flammable liquid and vapor. Inhalation may cause dizziness and headache. Irritating to eyes, skin and mucous membranes.

**PRIMARY ROUTES OF EXPOSURE:** Ingestion and inhalation

**EYE CONTACT:** May cause mild irritation of the eyes.

**SKIN CONTACT:** May cause slight to mild irritation of the skin.

**INHALATION:** : Irritating to the nose, mucous membranes and respiratory tract. Can cause dizziness, headaches, nausea and impaired coordination.

**INGESTION:** Irritating to mouth throat and stomach. May cause dizziness, nausea, vomiting, pain and stomach upset.

**CHRONIC HEALTH EFFECTS:** No information available on long term chronic effects.

**ACUTE HEALTH EFFECTS:** Irritation to skin, eyes and mucous membranes. More severe effects from ingestion and inhalation are dizziness, nausea, vomiting.

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## SECTION 4 First Aid Measures

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**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. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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## **SECTION 5                      Firefighting Measures**

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**FLASH POINT:** -2°F

**AUTO IGNITION TEMPERATURE:** no data

**EXPLOSION LIMITS:** no data

**EXTINGUISHING MEDIUM:** dry chemical, carbon dioxide, water spray or foam.

**SPECIAL FIREFIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** carbon dioxide, carbon monoxide, soot, germanium oxide particulate.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** Extremely flammable liquid. If evaporated in a confined space may form explosive mixtures with air.

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## **SECTION 6                      Accidental Release Measures**

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**SPILL AND LEAK PROCEDURES:** Eliminate all potential ignition sources. Small spills can be absorbed into vermiculite, clays, or other suitable adsorbent. Larger spills must be contained in order to avoid contamination of the soil, sewer systems or bodies of water

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## **SECTION 7                      Handling and Storage**

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**HANDLING AND STORAGE:** Store in a cool, dry, well-ventilated area away from heat and direct sunlight. Keep containers tightly sealed. Do not use heat, sparks, open flames, or torches on empty containers.

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## **SECTION 8                      Exposure Controls and Personal Protection**

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**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

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## **SECTION 9                      Physical and Chemical Properties**

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**COLOR AND FORM:** colorless liq.

**MOLECULAR WEIGHT:** 132.748

**MELTING POINT (DEG. C.):** no data

**BOILING POINT:** 43.4 °C

**VAPOR PRESSURE:** no data

**SPECIFIC GRAVITY:** 0.975

**SOLUBILITY IN WATER:** Insoluble

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## **SECTION 10      Stability and Reactivity**

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**STABILITY:** air and moisture stable

**HAZARDOUS POLYMERIZATION:** no hazardous polymerization

**CONDITIONS TO AVOID:** none

**INCOMPATIBILITY:** Oxidizing agents and halogens

**DECOMPOSITION PRODUCTS:** carbon dioxide, carbon monoxide, organic fumes, and germanium oxide

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## **SECTION 11      Toxicological Information**

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**RTECS DATA:** inhalation (mse); LC50: >2500 mg/m<sup>3</sup>/10M

**MUTAGENIC EFFECTS:** no data

**TETRATOGENIC EFFECTS:** no data

**CARCINOGENIC EFFECTS:** no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

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## **SECTION 12      Ecological Information**

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**ECOLOGICAL INFORMATION:** No information available

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## **SECTION 13      Disposal Considerations**

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**DISPOSAL:** Dispose of in according to local state and federal regulations.

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## **SECTION 14      Transportation Information**

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Flammable liquids, n.o.s., Class 3, UN1993, PG II

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## **SECTION 15      Regulatory Information**

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**TSCA:** Not Listed in the TSCA inventory

**SARA (TITLE 313):** Title compound not listed

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## **SECTION 16      Other Information**

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