

# MATERIAL SAFETY DATA SHEET

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

Manufacturer: ProChem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

Phone: (815) 398-1788  
Fax: (815) 398-1810  
E-Mail: Prochem1@aol.com

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** Tellurium powder  
**CAS #:** 13494-80-9  
**FORMULA:** Te  
**SYNONYM:** Tellur

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	13494-80-9	100	0.1mg/m3(as Te)	0.1mg/m3(as Te)

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** Inhalation of dust may cause garlic odor of breath, metallic taste, sleepiness, headache and nausea. Ingestion of moderate amounts of tellurium may be fatal.

**PRIMARY ROUTES OF EXPOSURE:** Contact with skin and eyes. Dust inhalation.

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

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

**INHALATION:** Harmful by inhalation. Inhalation of dust may cause garlic odor of breath, metallic taste, sleepiness, headache and nausea.

**INGESTION:** Toxic if swallowed. Ingestion of only moderate amounts of tellurium may lead to nausea, vomiting, bloody diarrhea, weakness and death.

**CHRONIC HEALTH EFFECTS:** Prolonged exposure may cause drowsiness and loss of appetite. Reproductive effector in animal studies by RTECS criteria.

**ACUTE HEALTH EFFECTS:** May cause garlic odor of breath, metallic taste, sleepiness, headache and nausea.

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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:** not applicable

**AUTO IGNITION TEMPERATURE:** not applicable

**EXPLOSION LIMITS:** not applicable

**EXTINGUISHING MEDIUM:** carbon dioxide, foam , or dry powder

**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:** If involved in a fire, burning metal will produce toxic fumes of tellurium oxide.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** No unusual fire or explosion hazards.

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## **SECTION 6                      Accidental Release Measures**

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**SPILL AND LEAK PROCEDURES:** Small spills can be mixed with vermiculite or sodium carbonate and swept up.

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## **SECTION 7                      Handling and Storage**

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**HANDLING AND STORAGE:** Store in a tightly sealed container. When handling, avoid forming airborne dust. Use good housekeeping practices to avoid contamination of work area.

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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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**MOLECULAR WEIGHT:** 127.6

**MELTING POINT (DEG. C.):** not applicable

**BOILING POINT:** 989.8°

**VAPOR PRESSURE:** 1mm(520°C)

**SPECIFIC GRAVITY:** 6.24

**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:** Mixtures of fine dust with air. Contact with an ignition source.  
**INCOMPATIBILITY:** Oxidizing agents, active metals, strong acids, strong bases and halogens.  
**DECOMPOSITION PRODUCTS:** none

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## **SECTION 11 Toxicological Information**

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**RTECS DATA:** Oral (rat); LD50: 83mg/kg. Inhalation (rat); LC50: >2420 mg/m<sup>3</sup>/4H. Intratracheal (rat); LCLo: 200 mg/kg. Oral (rabbit) LD50: 67 mg/kg. Oral (guinea pig); LD50: 45 mg/kg. Oral (rat); TDLo: 3300 mg/kg. Oral (rat); TDLo: 1693 mg/kg. Oral (rat); TDLo: 6064 mg/kg. Intramuscular (rat); TDLo: 13 mg/kg.

**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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Toxic solids, inorganic, n.o.s., Class 6.1, UN3288, PG III

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## **SECTION 15 Regulatory Information**

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**TSCA:** Listed in the TSCA inventory

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

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## **SECTION 16 Other Information**

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