



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Tellurium**

PRODUCT NUMBER: 3433

CAS NUMBER: 13494-80-9

SYNONYMS: Tellur

MANUFACTURER:

Prochem, Inc.
826 Roosevelt Road
Rockford, IL 61109

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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H301	Toxic if swallowed.
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Precautionary Phrases

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P501	Dispose of contents/container to an approved waste disposal plant.

HMIS CLASSIFICATION:

Health: 2 Chronic: * Fire: 0 Reactivity Hazard: 0

NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

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

SKIN CONTACT: The dust may cause mild irritation of the skin.

INHALATION: Harmful if inhaled. Inhalation of tellurium dust may cause garlic odor of breath, metallic taste, sleepiness, headache, and nausea.

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Te

Molecular Weight: 127.60

CHEMICAL NAME	CAS#	%
Tellurium	13494-80-9	100

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. Get immediate competent medical attention.

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

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

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

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not available

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Use carbon dioxide, alcohol-resistant foam, or special powder for metal fires. Do NOT use water.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Tellurium oxides and hydrogen telluride

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Without creating dust sweep up and place in suitable container for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid formation of dust.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Store away from strong bases, oxidizing agents, and halogens. Do not store with acids and interhalogens. Reacts with certain metals.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Tellurium	0.1 mg/m ³	TLV	ACGIH
	0.1 mg/m ³	PEL	OSHA
	0.1 mg/m ³	REL	NIOSH

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Gray solid

ODOR: None

MOLECULAR WEIGHT: 127.60

BOILING POINT: 989.8°C

MELTING POINT: 449.5°C

SPECIFIC GRAVITY: 6.24 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Mixtures of fine dust with air in contact with an ignition source

INCOMPATIBILITY: Oxidizing agents, acids, bases, halogens, interhalogens, Zinc, and cadmium

DECOMPOSITION PRODUCTS: Hydrogen telluride and telluride oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – rat – 83mg/kg. LC50 Inhalative – rat - >2420 mg/m³ – 4h. LCLo Intratracheal – rat – 200 mg/kg. LD50 Oral – rabbit – 67 mg/kg. LD50 Oral – guinea pig – 45mg/kg. TDLo Oral – rat – 3300 mg/kg. TDLo Oral – rat – 1693 mg/kg. TDLo Oral – rat – 6064mg/kg. TDLo Intramuscular –rat – 13mg/kg.

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

MUTAGENIC EFFECTS: Not available

TETRAOGENIC EFFECTS: Not available

REPRODUCTIVE EFFECTS: When applied intramuscularly to a rat, it suffered post-implantation mortality. When administered orally to rats, multiple birth defects occurred. Such defects include: Fetotoxicity, developmental abnormalities (musculoskeletal system, central nervous system), craniofacial defects (including nose and tongue), and other neonatal effects.

RTECS: WY2625000

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

SECTION 12 ECOLOGICAL DATA

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN3288

Toxic solids, inorganic, n.o.s.

(Tellurium)

Class 6.1

PG III

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 302/304: Not Listed

SARA 311/312: Acute Health Hazard, Chronic Health Hazard

SARA (TITLE 313): Not Listed

MASSACHUSETTS RIGHT TO KNOW: Tellurium

PENNSYLVANIA RIGHT TO KNOW: Tellurium

NEW JERSEY RIGHT TO KNOW: Tellurium

CALIFORNIA PROP. 65: Not Listed

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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