



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Tellurium (IV) Oxide**

PRODUCT NUMBER: 3447

CAS NUMBER: 7446-07-3

SYNONYMS: Tellurium dioxide

### MANUFACTURER:

Prochem, Inc.  
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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

Not a dangerous substances according to the GHS.

### HMIS CLASSIFICATION:

Health: 1 Fire: 0 Reactivity Hazard: 1

### NFPA RATING:

Health: 1 Flammability: 0 Reactivity Hazard: 1

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

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

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

**INGESTION:** Ingestion of large amounts of tellurium oxide may lead to nausea, vomiting, bloody diarrhea, weakness, cyanosis, and death.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: TeO<sub>2</sub>

Molecular Weight: 159.6

CHEMICAL NAME	CAS#	%
Tellurium Oxide	7446-07-3	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.

## SECTION 4 FIRST AID MEASURES (Cont.)

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

**INHALATION:** Remove 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:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Use fire fighting measures that suit the surrounding fire.

**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 the formation of dust.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Small spills can be mixed with vermiculite or sodium carbonate and swept up.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store away from strong bases and mineral acids.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Contains no substances with occupational exposure limit values.

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

TLV: Threshold Limit Value over 8 hours of work.

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

**EYE PROTECTION:** Wear chemical safety glasses or goggles.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, apron, or lab coat.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White to pale yellow powder.

**MOLECULAR WEIGHT:** 159.6

**BOILING POINT:** 1245° C

**MELTING POINT:** 733° C

**SPECIFIC GRAVITY:** 5.67 gm/ml

**VAPOR DENSITY:** No data available

**SOLUBILITY:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Excess heat

**INCOMPATIBILITY:** Strong oxidizing agents and strong acids.

**DECOMPOSITION PRODUCTS:** Tellurium oxides and hydrogen telluride.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – >5,000 mg/kg. LDLo Intratracheal – rat – 80mg/kg. LDLo Unreported – rabbit - 324mg/kg. TCLo Inhalation – rat – 50mg/m<sup>3</sup>/2H/15W-1. TCLo Inhalation – rat – 3500 ng/kg/13W-1. TDLo Subcutaneous – rat – 798mg/kg. TDLo Subcutaneous – rat – 399mg/kg. TDLo Subcutaneous – rat – 27930µg/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:** Based on laboratory animal testing, if implemented subcutaneously severe abnormalities or death may occur. These include: Stillbirth, fetotoxicity (stunted fetus), developmental abnormalities (central nervous system, eyes, and ears), effects on the viability index, and homeostasis.

**RTECS:** WY2675000

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

## SECTION 12 ECOLOGICAL DATA

**AQUATIC VERTEBRATE:** LC50 – Fundulus heteroclitus - >1,000mg/L – 96h

**AQUATIC INVERTEBRATE:** Not available

**TERRESTRIAL:** Not available

## SECTION 13 DISPOSAL CONSIDERATIONS

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

## SECTION 14 TRANSPORTATION DATA

Not a dangerous good.

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory

**DSCL (EEC):** Listed on the DSCL inventory

**SARA 302/304:** Not Listed

**SARA 311/312:** No SARA Hazards

**SARA (TITLE 313):** Not Listed

**CALIFORNIA PROP. 65:** Not Listed

## SECTION 16 OTHER INFORMATION

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