



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Gallium (II) Telluride**

PRODUCT NUMBER: 1903

CAS NUMBER: 12024-14-5

### 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.
H332	Harmful if inhaled.

### Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER /doctor/physician.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.

### HMIS CLASSIFICATION:

Health: 2      Fire: 0      Reactivity Hazard: 1

### NFPA RATING:

Health: 2      Flammability: 0      Reactivity Hazard: 1

**EYE CONTACT:** May cause irritation to the eyes.

**SKIN CONTACT:** May cause irritation to the skin.

**INHALATION:** Harmful if swallowed.

**INGESTION:** Toxic if swallowed.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: GaTe

Molecular Weight: 197.32

CHEMICAL NAME	CAS#	%
Gallium (II) Telluride	12024-14-5	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 plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. 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. Seek competent medical assistance immediately.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** product does not present explosion hazards.

**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 oxide and gallium oxide

## 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:** 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.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Gallium (II) Telluride	0.1 mg/m <sup>3</sup>	TLV	ACGIH
	0.1 mg/m <sup>3</sup>	PEL	OSHA

TLV: Threshold Limit Value over 8 hours of work.

PEL: Permissible Exposure Limit

**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:** Black solid  
**ODOR:** None  
**MOLECULAR WEIGHT:** 197.32  
**BOILING POINT:** No data available  
**MELTING POINT:** 822-826° C  
**SPECIFIC GRAVITY:** 5.44 gm/ml  
**SOLUBILITY:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**CONDITIONS TO AVOID:** Extremes of temperature and direct sunlight  
**INCOMPATIBILITY:** Strong oxidizing agents  
**DECOMPOSITION PRODUCTS:** Tellurium oxide and gallium oxide

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Harmful if inhaled or swallowed.  
**CARCINOGENIC EFFECTS:** No component of this product present at levels greater than or equal to 0.1% is considered to be a human carcinogen.  
**MUTAGENIC EFFECTS:** Not available  
**TETRAOGENIC EFFECTS:** Not available  
**CHRONIC TOXICITY:** Gallium and gallium compounds may cause metallic taste, dermatitis, and depression of the bone marrow function. Large doses may cause hemorrhagic nephritis. Tellurium is converted in the body to dimethyl telluride which imparts a garlic like odor to the breath and sweat. Heavy exposure may result in headache, drowsiness, metallic taste, loss of appetite, nausea, tremors, convulsions, and respiratory tract.  
**RTECS:** No data

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

## SECTION 12 ECOLOGICAL DATA

No information 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  
**SARA (TITLE 313):** Not listed  
**CALIFORNIA PROP. 65:** Not Listed

## **SECTION 16 OTHER INFORMATION**

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DATE PREPARED: 05/15

SDS DEPT.