



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Gadolinium Telluride**

PRODUCT NUMBER: 1846

CAS NUMBER: 12160-99-5

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

HMIS CLASSIFICATION:

Health: 2 Fire: 0 Physical Hazard: 0

NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

EYE CONTACT: Causes serious eye irritation.

SKIN CONTACT: Causes skin irritation.

INHALATION: May cause irritation and damage to the respiratory system, a dry mouth, and garlic odor to breath, sweat, and urine.

INGESTION: May cause irritation to gastrointestinal tract, dry mouth, suppression of sweat, and garlic odor to breath and urine.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Gd_2Te_3

Molecular Weight: 697.30

CHEMICAL NAME	CAS#	%
Gadolinium Telluride	12160-99-5	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 with plenty of soap and water. Get medical attention.

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. Give oxygen if deemed necessary. If not breathing administer CPR. Get emergency care immediately.

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

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable

AUTO IGNITION TEMPERATURE: No data

EXPLOSION LIMITS: No data

EXTINGUISHING MEDIUM: Use fire fighting measures for the surrounding materials.

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 gadolinium oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate respiratory and protective equipment to avoid all exposure to with the material.

ENVIRONMENTAL PRECAUTIONS: Do not let enter drains or allow to be released into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Pick up and arrange disposal without creating dust. Sweep up and shovel. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear approved personal protective equipment. Ensure adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

CONDITIONS FOR SAFE STORAGE: Store in a cool, dry, and well-ventilated area. Keep away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

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

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: Approved NIOSH dust 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

MOLECULAR WEIGHT: 697.30

BOILING POINT: No data available

MELTING POINT: 1255° C

SPECIFIC GRAVITY: 7.7 gm/ml

VAPOR PRESSURE: Not applicable

SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Not available

INCOMPATIBILITY: Strong acids

DECOMPOSITION PRODUCTS: Tellurium oxides and gadolinium oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: No data

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

MUTAGENIC EFFECTS: No data

TETRATOGENIC EFFECTS: No data

RTECS: No data

ADDITIONAL INFORMATION: Dry mouth, garlic-like breath odor, loss of appetite, metallic taste, nausea, and weakness.

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 substance

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA

SARA (TITLE 313): This material does not contain any chemical components with known CAS numbers that exceed the threshold.

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: No components are subject to the Massachusetts Right to Know Act

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Gadolinium telluride

NEW JERSEY RIGHT TO KNOW COMPONENTS: Gadolinium telluride

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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