



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Terbium (III) Fluoride**

PRODUCT NUMBER: 3479

CAS NUMBER: 13708-63-9

SYNONYMS: Terbium trifluoride

### MANUFACTURER:

Prochem, Inc.  
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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H302+H312	Harmful if swallowed, in contact with skin, or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.

### Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/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/protective clothing/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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before reuse.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

P403+P233	Store in a well-ventilated place.
P501	Dispose of contents/container to an approved waste disposal plant.

### HMIS CLASSIFICATION:

Health: 2 Fire: 0 Reactivity Hazard: 0

### NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

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

**SKIN CONTACT:** may cause mild irritation and redness.

**INHALATION:** May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

**INGESTION:** Toxicity reduced to the extent that this compound is relatively insoluble. In large amounts may cause vomiting, abdominal pain, and diarrhea.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: TbF<sub>3</sub>

Molecular Weight: 215.92

CHEMICAL NAME	CAS#	%
Terbium (III) Fluoride	13708-63-9	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 assistance 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:** 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:** Terbium oxides and hydrogen fluoride

## 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:** Small spills can be mixed with powdered sodium bicarbonate, lime, or calcium carbonate and swept up.

## 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.

## SECTION 7 HANDLING AND STORAGE (Cont.)

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Hygroscopic. Protect from carbon dioxide.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Terbium (III) Fluoride	2.5 mg/m <sup>3</sup>	TLV	ACGIH
	2.5 mg/m <sup>3</sup>	PEL	OSHA
	2.5 mg/m <sup>3</sup>	REL	NIOSH
(Fluorides)	2 mg/g*	BEI-U	ACGIH
(Fluorides)	3 mg/g**	BEI-U	ACGIH

\*Prior to shift

\*\*End of Shift

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

BEI-U: Bodily Exposure Indices in Urine

**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.

**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:** White powder

**ODOR:** None

**MOLECULAR WEIGHT:** 215.92

**BOILING POINT:** 2280°C

**MELTING POINT:** 1172°C

**SPECIFIC GRAVITY:** 7.2 gm/ml

**VAPOR DENSITY:** No data available

**SOLUBILITY:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Not available

**INCOMPATIBILITY:** Strong reducing agents and acids

**DECOMPOSITION PRODUCTS:** Terbium oxides and hydrogen fluoride

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LDLo Intraperitoneal – mammal-species unspecified – 10g/kg. TDLo Oral – rat – 44g/kg/31D-1.

**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

**TETRATOGENIC EFFECTS:** Not available

**CHRONIC TOXICITY:** Not available

**RTECS:** WY9367500

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 solid, inorganic, n.o.s.

(Terbium fluoride)

CLASS 6.1

PG III

Marine Pollutant: No

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Listed in the TSCA inventory

**SARA 302/304:** Not Listed

**SARA 311/312:** Acute Health Hazard

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

**CALIFORNIA PROP. 65:** Not Listed

**PENNSYLVANIA RIGHT TO KNOW:** Terbium (III) Fluoride

**NEW JERSEY RIGHT TO KNOW:** Terbium (III) Fluoride

## **SECTION 16 OTHER INFORMATION**

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