



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Terbium (III) Oxalate, decahydrate**  
PRODUCT NUMBER: 3484  
CAS NUMBER: 24670-06-2  
SYNONYMS: Oxalic acid, terbium (+3) salt, decahydrate  
**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.

### Precautionary Phrases

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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P501	Dispose of contents/container to an approved waste disposal plant.

### HMIS CLASSIFICATION:

Health: 2      Fire: 1      Reactivity Hazard: 1

### NFPA RATING:

Health: 2      Flammability: 1      Reactivity Hazard: 1

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

**SKIN CONTACT:** May cause moderate to severe irritation of the skin.

**INHALATION:** Dust may be severely irritating to the nose, mucous membranes, and respiratory tract.

**INGESTION:** Ingestion may cause vomiting, pain, violent muscular stimulation, convulsions, collapse, and death.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**ACUTE HEALTH EFFECTS:** Soluble oxalates remove calcium from the bloodstream. This interferes with the central nervous system causing violent convulsions and death.

**CHONIC HEALTH EFFECTS:** Prolonged exposure to oxalates can lead to kidney failure resulting from calcium oxalate precipitation in renal tubes.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $Tb_2(C_2O_4)_3 \cdot 10H_2O$

Molecular Weight: 762.05

CHEMICAL NAME	CAS#	%
Terbium (III) Oxalate	24670-06-2	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eyelids open. Get immediate medical attention.

**SKIN EXPOSURE:** Wash the 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:** 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:** Not available

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.

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

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Carbon oxides and terbium oxide..

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or 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. Keep away from heat and moisture.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

**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.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

**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:** Not available

**MOLECULAR WEIGHT:** 480.45

**BOILING POINT:** No data available

**MELTING POINT:** No data available

**SPECIFIC GRAVITY:** Not available

**VAPOR DENSITY:** No data available

**SOLUBILITY:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** None

**INCOMPATIBILITY:** Reducing agents, halogens, and oxidizing agents.

**DECOMPOSITION PRODUCTS:** Terbium oxide and carbon oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Not available

**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:** Oxalates are powerful irritants and corrosive to tissue. They have a caustic effect on the mouth, esophagus, and stomach. Readily absorbed, they can cause severe kidney damage. Lanthanons can cause delayed blood clotting leading to hemorrhages. Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and liver damage.

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

Not a dangerous good

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory

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

## **SECTION 15 REGULATORY INFORMATION (Cont.)**

**SARA 302/304:** Not Listed

**SARA 311/312:** Not available

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

**CALIFORNIA PROP. 65:** Not Listed

**WHMIS CANADA:** Class D-1B: Toxic material causing immediate and serious toxic effects.

## **SECTION 16 OTHER INFORMATION**

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