



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Thulium (III) oxalate hydrate**
PRODUCT NUMBER: 3610
CAS NUMBER: 58176-73-1
SYNONYMS: Thulium oxalate, Oxalic acid, thulium salt.

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H302+H312	Harmful if swallowed or in contact with skin.
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Precautionary Phrases

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
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.

HMIS CLASSIFICATION:

Health: 1 Flammability: 0 Reactivity: 0

NFPA RATING:

Health: 1 Fire: 0 Reactivity Hazard: 0

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

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

INHALATION: 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 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{Tm}_2(\text{C}_2\text{O}_4)_3 \cdot \text{xH}_2\text{O}$

Molecular Weight: 601.93 (anhy.)

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Thulium (III) oxalate hydrate	58176-73-1	100	No data	No data

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 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: 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: Not applicable

AUTO IGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: Not applicable

EXTINGUISHING MEDIUM: Carbon dioxide, dry powder, or foam.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and thulium oxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear approved personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation.

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

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin and eyes. Avoid formation of dust. Ensure adequate ventilation.

CONDITIONS FOR SAFE STORAGE: Store material in a tightly sealed container in a cool, dry, and well ventilated area. Store under inert gas. Hygroscopic.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Solid

MOLECULAR WEIGHT: 601.93 (anhy.)

BOILING POINT: No data available

MELTING POINT: No data available

SPECIFIC GRAVITY: No data available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

VAPOR PRESSURE: No data

SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Air and moisture stable

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID: Moisture

INCOMPATIBILITY: Oxidizing agents

DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, organic vapors, metal oxides, and carbonates.

SECTION 11 TOXICOLOGICAL DATA

RTECS DATA: No information available in the RTECS files.

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified as a confirmed carcinogen by IARC, ACGIH, NTP, and OSHA.

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: No data available

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

Non-hazardous material

SECTION 15 REGULATORY INFORMATION

TSCA: Not listed in the TSCA inventory

SARA 313 COMPONENTS: This material does not contain any chemical components with know CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

OSHA: No known OSHA hazards

SARA 302 COMPONENTS: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 HAZARDS: Acute Health Hazard

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

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Thulium (3+) oxalate hydrate

NEW JERSEY RIGHT TO KNOW COMPONENTS: Thulium (3+) oxalate hydrate

CALIFORNIA PROP. 65 COMPONENTS: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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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