



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Ytterbium (III) 2,2,6,6-tetramethyl-3,5-heptanedionate**
PRODUCT NUMBER: 3821
CAS NUMBER: 15492-52-1
SYNONYMS: Ytterbium(III) TMHD, Ytterbium TMHD, Yb(TMHD)₃, Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)ytterbium(III), Ytterbium(III)-tris-(2,2,6,6-tetramethyl-3,5-heptanedionate), ytterbium dipivaloylmethane

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep 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.
P337+P313	If eye irritation persists: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EYE CONTACT: Causes serious eye irritation.

SKIN CONTACT: Causes skin irritation.

INHALATION: May cause respiratory irritation.

INGESTION: No specific information is available on the physiological effects of ingestion.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{Yb}(\text{C}_{11}\text{H}_{19}\text{O}_2)_3$

Molecular Weight: 722.86

CHEMICAL NAME	CAS#	%
Ytterbium (III) 2,2,6,6-tetramethyl-3,5-heptanedionate	15492-52-1	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 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: Drink water. Get medical attention if symptoms occur.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: None

AUTO IGNITION TEMPERATURE: None

EXPLOSION LIMITS: None

EXTINGUISHING MEDIUM: Water spray, carbon dioxide, dry chemical, and alcohol-resistant foam.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and ytterbium oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid dust formation. Use appropriate ventilation. Use personal protective equipment as required.

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage and do not let enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up material in a suitable, closed container, and dispose of properly.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid formation of dust.

CONDITIONS FOR SAFE STORAGE: Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from moisture.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

SKIN PROTECTION: Chemical-resistant

VENTILATION: If possible, handle the material in an efficient 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 29CFR 1910.34.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White to cream powder

MOLECULAR WEIGHT: 722.86

MELTING POINT: 167-169° C

BOILING POINT: >100° C @ .1 mm Hg @ 20° C

SPECIFIC GRAVITY: No data available

SOLUBILITY IN WATER: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID: Exposure to moisture and heat

INCOMPATIBILITY: Oxidizing agents.

DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and ytterbium oxides.

SECTION 11 TOXICOLOGICAL DATA

RTECS DATA: No information available in the RTECS files.

CARCINOGENIC EFFECTS: No data available

MUTAGENIC EFFECTS: No data available

TETRAUTOGENIC 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

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

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

CALIFORNIA PROPOSITION 65: This product does not contain any Proposition 65 chemicals.

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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SDS DEPT.