

SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Samarium (III) 2,2,6,6-tetramethyl-3,5-heptanedionate**

PRODUCT NUMBER: 3111

CAS NUMBER: 15492-50-9

SYNONYMS: Samarium (III) TMHD, Samarium TMHD, Samarium (III)-DPM, Sm(TMHD)3, Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)samarium(III)

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Acute toxicity; oral	Category – 3
Skin corrosion / irritation	Category – 2
Serious eye damage / eye irritation	Category – 2 / 2A
Specific target organ toxicity; Respiratory tract irritation	Category – 3

Pictogram



Signal Word **Warning**

Hazard Statements

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling
P280	Wear protective gloves/eye protection/face protection.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth
P302+P352+P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER/ doctor if you feel unwell.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $Sm(C_{11}H_{19}O_2)_3$

Molecular Weight: 700.11

CHEMICAL NAME	CAS#	%
Samarium (III) 2,2,6,6-tetramethyl-3,5-heptanedionate	15492-50-9	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. Take off immediately all contaminated clothing. Seek medical assistance if irritation persists.
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. In such cases, seek immediate medical assistance.
INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious).

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not available
AUTO IGNITION TEMPERATURE: None
EXPLOSION LIMITS: None
EXTINGUISHING MEDIUM: Carbon dioxide or foam dry powder. Use extinguishing media that is suitable for surrounding fires.
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 oxides and samarium oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use 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: Sweep up and shovel into suitable container for disposal. Keep in suitable, closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear personal protective equipment/face protection. Avoid formation of dust and contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.
CONDITIONS FOR SAFE STORAGE: Keep in a dry and well-ventilated place in tightly closed container.

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: Chemical resistant gloves. Nitrile .11 mm thickness or above. Long sleeved clothing and apron.
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 in compliance with OSHA 29 CFR 19-10.13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Light yellow powder
MOLECULAR WEIGHT: 700.11
BOILING POINT: 250 ° C (dec)
MELTING POINT: 191 – 193° C
SPECIFIC GRAVITY: No data available
SOLUBILITY IN WATER: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Not Available
HAZARDOUS POLYMERIZATION: No hazardous polymerization
CONDITIONS TO AVOID: Not Available
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Carbon oxides and samarium oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: No data available
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: No data 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

Not a dangerous good

SECTION 15 REGULATORY INFORMATION

TSCA: Not listed in the TSCA inventory
SARA 311/312: Acute Health Hazard
SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:
CALIFORNIA PROP. 65: This product does not contain any proposition 65 chemicals.
NEW JERSEY – RIGHT TO KNOW: Samarium (III) 2,2,6,6-tetramethyl-3,5-heptanedionate
PENNSYLVANIA – RIGHT TO KNOW: Samarium (III) 2,2,6,6-tetramethyl-3,5-heptanedionate
MASSACHUSETTS – RIGHT T0 KNOW: Samarium (III) 2,2,6,6-tetramethyl-3,5-heptanedionate
NORTH CAROLINA – RIGHT TO KNOW: Samarium (III) 2,2,6,6-tetramethyl-3,5-heptanedionate

SECTION 16 OTHER INFORMATION

CAS #: Chemical Abstracts Service Number
NIOSH: National Institute for Occupational Safety and Health
(**dec):** Decomposition
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
NTP: National Toxicology Program.
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act

SECTION 16 OTHER INFORMATION (Cont.)

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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All details in this document about this product are in its original outline form as of 10/26
EHS / SDS DEPT.