



LTS Research Laboratories, Inc.
Safety Data Sheet
Trimethyltin hydroxide

1. Product and Company Identification

Trade Name: Trimethyltin hydroxide
Chemical Formula: $C_3H_{10}OSn$
Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.
Street: 2001 Oaks Pkwy
City: Belmont, Charlotte
State: North Carolina
Zip Code: 28012
Country: USA
Tel #: 855-587-2436 / 855-lts-chem
24-Hour Emergency Contact: 800-424-9300 (US & Canada)
+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H300+H310+H330: Fatal if swallowed or in contact with skin or if inhaled

Precautionary Statements:

- P260: Do not breathe dust/fume/gas/mist/vapors/spray
- P262: Do not get in eyes, on skin, or on clothing
- P264: Wash face, hands and any exposed 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
- P284: Wear respiratory protection
- P301+P330+P310: IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician
- P303+P361+P350+P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician
- P304+P340+P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician
- P363: Wash contaminated clothing before reuse
- P405: Store locked up
- P403+P233: Store in a well-ventilated place. Keep container tightly closed
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health:	4
Flammability:	1
Physical:	0

3. Composition

Chemical Family:	Organometallic Compounds
Additional Names:	Trimethylstannanol

Trimethyltin hydroxide (C₃H₁₀OSn):

Percentage:	100 wt%
CAS #:	56-24-6
EC #:	677-697-9

4. First Aid Procedures

General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None

Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Immediate medical attention is required.
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Ingestion:	Give one to two glasses of water. Never induce vomiting or give anything by mouth to an unconscious person. Immediate medical attention is required.
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Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing. Immediate medical attention is required.
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Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediate medical attention is required.
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5. Firefighting Measures

Flammability:	Non-flammable, except as powder.
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Extinguishing Media:	Water spray, carbon dioxide (CO ₂), dry chemical, alcohol-resistant foam
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Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.
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6. Accidental Release Measures

If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.
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Environmental Precautions:	Isolate runoff to prevent environmental pollution.
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7. Handling and Storage

Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits:	0.1 mg/m ³ as C ₃ H ₁₀ OSn, long-term value
Threshold Limit Value:	0.1 mg/m ³ as C ₃ H ₁₀ OSn, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9. Physical and Chemical Characteristics

Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Pungent
Water Solubility:	Soluble
Boiling Point:	N/A
Melting Point:	118°C
Flash Point:	26°C
Autoignition Temperature:	Not applicable
Density:	N/A
Molecular weight:	180.82 g/mol

10. Reactivity

Stability:	Stable under recommended storage. Air sensitive
Reacts With:	Strong oxidizing agents, halogens
Incompatible Conditions:	Excess heat, avoid dust formation, exposure to air
Hazardous Decomposition Products:	Carbon monoxide (CO), Carbon dioxide (CO ₂)

11. Toxicological Information

Potential Health Effects:	
Eyes:	May cause irritation
Skin:	Fatal in contact with skin
Ingestion:	Fatal if swallowed
Inhalation:	Fatal if inhaled
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A

12. Ecological Information

Aquatic Toxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A
Notes: Do not empty into drains.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation as powder only



Hazard Class: 6.1
Packing Group: III
UN Number: UN3146
Proper Shipping Name: Organotin compound, solid, n.o.s. (Trimethyltin hydroxide)

15. Regulatory Information

Sec 302 Extremely Hazardous: No
Sec 304 Reportable Quantities: N/A
Sec 313 Toxic Chemicals: No

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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