

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **ALLYLTRIMETHYLTIN, 95% - SNA0560**

CHEMICAL NAME: ALLYLTRIMETHYLTIN

SYNONYMS: TRIMETHYLPROPENYLSTANNANE

CHEMICAL FAMILY: ORGANOTIN

FORMULA: C<sub>6</sub>H<sub>14</sub>Sn

HMIS CODES HEALTH: 4 FLAMMABILITY: 4 REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
ALLYLTRIMETHYLTIN	762-73-2	>90	0.1 mg/m <sup>3</sup> as tin
OTHER ORGANOTINS		<10	0.1mg/m <sup>3</sup> as tin

**PHYSICAL DATA**

Boiling Point: 125-9°C

Specific Gravity: 1.255

Vapor Density (air=1): >1

% volatiles: 100

Molecular Weight: 204.87

Appearance & Color: Clear, colorless liquid, distinct odor

Freezing Point: <0°C

Vapor Pressure, 20°C: not determined

Solubility in water: insoluble

Evaporation rate: not determined

Other: N/A

**FIRE & EXPLOSION DATA**

Flash Point, TCC: <23°C ( <73°F)

Autoignition Temp.: not determined

Flammability Limits: not determined

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

Unusual Fire and Explosion Hazards: Moderately toxic by inhalation; self-contained breathing apparatus should be worn at all times to avoid inhalation. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

-1-(SNA0560)

## ENVIRONMENTAL INFORMATION

Spill response: Cover spill with absorbent material. Transfer to a suitable container for disposal.

Recommended Disposal: Dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed severe eye irritation. The onset of irritation may not occur until several hours after exposure.

Skin contact: May produce irritation or contact dermatitis which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects. Organotins may be absorbed through the skin.

Inhalation: At low levels exposure to allylmethyltin may produce coughing, headache and nausea. The related compound, tetramethyltin has been reported to cause bradycardia, hypertension, nausea, vomiting, irritation of upper and lower respiratory systems, abrupt variation in sinus rhythm and short term memory loss. At higher levels tetramethyltin has been reported to cause damage to brain cells in the limbic system.

TOXICITY: not determined

Chronic Toxicity: There are no known chronic effects related to this compound.

## SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water. *Note to physician: Application of corticosteroid creams has been effective in treating severe skin irritation. If blisters develop, they may require abrasion to promote healing.*

INHALATION: Move exposed individual to fresh air. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

## REACTIVITY DATA

Stability: Stable

Conditions to avoid: NA

Incompatibility (materials to avoid): Oxidizers. Direct sunlight causes degradation to an inorganic tin salt; avoid contact with tin IV chloride as highly toxic trimethylchlorotin may form.

Hazardous decomposition products: Organic acid vapors.

-2-(SNA0560)

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Insure that exhaust is vented properly- caustic scrubbing is recommended. Mechanical is recommended.

Respiratory Protection: A TLV air-supplied or combination organic vapor acid gas respirator is recommended at all times.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

## OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store in sealed containers in a manner consistent with safe-handling and regulatory requirements for a hazardous substance.

## TRANSPORTATION

DOT SHIPPING NAME: POISONOUS LIQUID, FLAMMABLE, N.O.S.  
(ALLYLTRIMETHYLTIN)

DOT HAZARD CLASS: 6

DOT LABEL: POISON & FLAMMABLE LIQUID

DOT ID No: UN 2929

PG: III

Prepared by safety and environmental affairs      ISSUE DATE SNA0560: 9/27/03  
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