

GELEST, INC.

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**MATERIAL SAFETY
DATA SHEET**

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: TETRA-n-BUTYLTIN, 99% - SNT7261

CHEMICAL NAME: TETRA-n-BUTYLTIN

SYNONYMS: TETRABUTYLSTANNANE

CHEMICAL FAMILY: ORGANOTIN

FORMULA: $(C_4H_9)_4Sn$

HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

| IDENTITY | CAS NO. | % | TLV |
|------------------|-----------|-----|------------------------------|
| TETRA-n-BUTYLTIN | 1461-25-2 | >98 | 0.1 mg/m ³ as tin |
| OTHER ORGANOTINS | | <2 | 0.1 mg/m ³ as tin |

PHYSICAL DATA

Boiling Point: 145°C at 10mm

Specific Gravity: 1.057

Vapor Density (air=1): >1

% volatiles: NA

Molecular Weight: 347.15

Appearance & Color: Clear to straw liquid; mild odor

Freezing Point: -97°C

Vapor Pressure, 20°C: < 0.1mm

Solubility in water: insoluble

Evaporation rate (butyl acetate = 1): <1

Viscosity: 4-5 cSt

FIRE & EXPLOSION DATA

Flash Point, TCC: 107°C (225°F)

Flammability Limits: not determined

Autoignition Temp.: 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: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

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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: Inhalation of vapors or particulates of organotins may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea. The onset of symptoms may be delayed until several hours after exposure.

ORAL TOXICITY - rat, LD50: > 4000mg/kg

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: N/A

Incompatibility (materials to avoid): Oxidizers. Direct sunlight causes degradation to an inorganic tin salt.

Hazardous decomposition products: Organic acid vapors, tin oxides.

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SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor acid gas respirator.

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 and industrial use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: NONE REQUIRED

DOT HAZARD CLASS: NONE REQUIRED

DOT LABEL: NONE REQUIRED

DOT ID No: NONE REQUIRED

Prepared by safety and environmental affairs

ISSUE DATE SNT7261: 12/20/04

SUPERSEDES: none

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