

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **TRI-n-BUTYLETHOXYTIN - SNT8090**
CHEMICAL NAME: TRI-n-BUTYLETHOXYTIN
SYNONYMS: TRIBUTYL TIN ETHOXIDE, TRIBUTYLETHOXYSTANNANE
CHEMICAL FAMILY: ORGANOTIN
FORMULA: C₁₄H₃₂OSn
HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
TRI-n-BUTYLETHOXYTIN	36253-76-6	>95	0.1 mg/m ³ as tin
OTHER ORGANOTINS		<5	0.1mg/m ³ as tin

PHYSICAL DATA

Boiling Point: 92°C at 0.1mm	Freezing Point: <0°C
Specific Gravity: 1.098	Vapor Pressure, 20°C: <0.01mm
Vapor Density (air=1): >1	Solubility in water: insoluble
% volatiles: NA	Evaporation rate: NA
Molecular Weight: 335.10	Other: NA
Appearance & Color: Clear to straw liquid; mild odor	

FIRE & EXPLOSION DATA

Flash Point, TCC: 40°C (104°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: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

-1-(SNT8090)

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.

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: Tri-n-butylethoxytin hydrolyzes in the presence of moisture, forming ethanol and bis(tri-n-butyl)oxide.

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

Hazardous decomposition products: Organic acid vapors, tin oxides

-2-(SNT8090)

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 use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (tri-n-butylethoxytin)

DOT HAZARD CLASS: FLAMMABLE LIQUID

DOT LABEL: FLAMMABLE LIQUID

DOT ID No: UN1993

Prepared by safety and environmental affairs

ISSUE DATE SNT8090: 10/4/03

SUPERSEDES: 3/9/92

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