

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **DI-n-BUTYL(MALEATE)TIN - SND3320**  
CHEMICAL NAME: DI-n-BUTYL(MALEATE)TIN  
SYNONYMS: DI-n-BUTYL-1,3,2-DIOXASTANNAPIN-4,7-DIONE  
CHEMICAL FAMILY: TIN COMPOUND  
FORMULA: C<sub>12</sub>H<sub>20</sub>O<sub>4</sub>Sn

HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
DI-n-BUTYL(MALEATE)TIN	78-04-6	>95	0.1 mg/m <sup>3</sup> as tin

**PHYSICAL DATA**

Boiling Point :> 200°C	Melting Point: (102-5°C)
Specific Gravity: 1.32	Vapor Pressure: not determined
Vapor Density: NA	Solubility in water: insoluble
% volatiles < 0.3%	Evaporation rate: NA
Molecular Weight: 294.99	Other: NA
Appearance & Color: White to off-white powder, odorless	

**FIRE & EXPLOSION DATA**

Flash Point, COC: 204°C(400°F) Autoignition Temp.: not determined  
Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Foam, Water spray, carbon dioxide.  
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-(SND3320)

## ENVIRONMENTAL INFORMATION

Spill response: May be hazardous to aquatic life if released to open waters. Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Dispose of as solid waste. Follow all chemical pollution control regulations. Alternately, collect solids for recovery and recycle of tin.

## HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed severe eye irritation.

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.

Inhalation: Inhalation of dust or particulates will irritate the respiratory tract.

Oral Toxicity: not determined

Chronic Toxicity: Exposure to dust or fumes of inorganic tin compounds is known to cause a benign pneumoniosis. (stannosis)

### 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.

**INHALATION:** Move exposed individual to fresh air. Administer oxygen if needed. 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: None with proper storage.

Hazardous decomposition products: Organic acid vapors, tin oxides.

-2-(SND3320)

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved dust and mist 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: CHEMICALS NOI

DOT HAZARD CLASS: None required

DOT LABEL: None required

DOT ID No: None required

Prepared by safety and environmental affairs      ISSUE DATE SND3320: 10/2/03  
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