

GELEST, INC.

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MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **TRIPHENYLBISMUTH - OMBI078**

CHEMICAL NAME: TRIPHENYLBISMUTH

SYNONYMS: TRIPHENYLBISMUTHINE

CHEMICAL FAMILY: BISMUTH COMPOUND

FORMULA: C₁₈H₁₅Bi

HMIS CODES HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
TRIPHENYLBISMUTH	603-33-8	95	not established	(OSHA PEL, nuisance dust: 15mg/m ³)

PHYSICAL DATA

Boiling Point: 242°C at 14mm

Specific Gravity: 1,585

Vapor Density: NA

% volatiles: <1

Molecular Weight: 440.30

Appearance & Color: Off-white solid

Melting Point: 77-8°C

Vapor Pressure, 25°: <0.01mm

Solubility in water: insoluble

Evaporation rate: NA

Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC : >200°C (>392°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 water or open flame.

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ENVIRONMENTAL INFORMATION

Spill response: May be hazardous to aquatic life if released to open waters. Cover spill with absorbent material. Transfer to a suitable container for disposal.

Recommended Disposal: May be incinerated. Alternately, mix with clay or vermiculite and 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.

Skin contact: A single relatively short exposure causes no adverse effect. Several or prolonged exposures may cause mild irritation. Avoid Contact.

Inhalation: Inhalation of vapors or particulates of may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Oral Toxicity, mouse, LDLo: 320mg/kg

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

TOXICITY- ivn mus, LD50: 180mg/kg;

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. Call a physician.

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

REACTIVITY DATA

Stability: Stable in sealed containers.

Conditions to avoid: Store away from oxidizers, strong acids.

Hazardous decomposition products: Carbon monoxide, organic acid vapors and bismuth oxides.

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: CHEMICALS, NOI

DOT HAZARD CLASS: Not Regulated

DOT LABEL: Not Required

DOT ID No: Not Required

Prepared by safety and environmental affairs

ISSUE DATE OMBI078: 6/20/05

SUPERSEDES:none

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