

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **BISMUTH 2-ETHYLHEXANOATE 80-85% - CXBI040**

CHEMICAL NAME: BISMUTH 2-ETHYLHEXANOATE 80-85% in mineral spirits

SYNONYMS: BISMUTH OCTOATE; 2-ETHYLHEXANOIC ACID, BISMUTH SALT

CHEMICAL FAMILY: BISMUTH COMPOUND

FORMULA: C₂₄H₄₅O₆Bi

HMIS CODES HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
BISMUTH 2-ETHYLHEXANOATE	67874-71-9	>80	not established	
MINERAL SPIRITS (NAPHTHA, MEDIUM ALIPHATIC)	8052-41-3	>20	525 mg/m ³	2000mg/m ³
2-ETHYLHEXANOIC ACID	149-57-5	<5	not established	

PHYSICAL DATA

Boiling Point: >150°C - mineral spirits

Specific Gravity: 1.26

Vapor Density: NA

% volatiles: <20

Molecular Weight: 638.61

Appearance & Color: Yellow-amber liquid

Melting Point: NA

Vapor Pressure, 20°: 2mm - mineral spirits

Solubility in water: insoluble

Evaporation rate: NA

Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: 49°C (120°F)

Autoignition Temp.: not determined

Flammability Limits- mineral spirits LEL: 1.0 UEL: 6.0

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-(CXBI040)

ENVIRONMENTAL INFORMATION

Spill response: Ventilate area on spill. Absorb into vermiculite, sand or inert material. Sweep material and transfer to a suitable container for disposal.

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

HEALTH HAZARD DATA

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

Skin contact: May produce irritation or contact dermatitis. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of dust or particulates may irritate the respiratory tract. Bismuth vapors and dust have moderate toxicity.

Toxicity: oral-rat, LD50: 6470mg/kg

Chronic Toxicity: not determined

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: Strong oxidizing agents.

Hazardous decomposition products: Organic acid vapors and bismuth oxide fumes.

-2-(CXBI040)

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: FLAMMABLE LIQUID, NOS (BISMUTH 2-ETHYLHEXANOATE)

DOT HAZARD CLASS: 3

DOT LABEL: Flammable Liquid

DOT ID No: UN1993

PG: III

Prepared by safety and environmental affairs

ISSUE DATE CXBI040: 6/20/03

SUPERSEDES: 3/24/03

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