

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME ON LABEL: **BIS[3-(TRIETHOXYSILYL)PROPYL]UREA, 60% in ethanol - SIB1828.0**

CHEMICAL NAME: BIS[3-(TRIETHOXYSILYL)PROPYL]UREA, 60% in ethanol

SYNONYMS:

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C₁₉H₄₄N₂O₇Si₂

HMIS CODES HEALTH: 3 FLAMMABILITY: 4 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
BIS[3-(TRIETHOXYSILYL)PROPYL]UREA	69465-84-5	>60	1	not established
ETHANOL 1000ppm	64-17-5		<40	1000ppm

PHYSICAL DATA

Boiling Point: not determined

Specific Gravity: 0.923

Vapor Density: NA

% volatiles: <40

Molecular Weight: 440.66

Appearance & Color: Clear to straw liquid with mild odor of ethanol.

Freezing Point: <0°

Vapor Pressure: not determined

Solubility in water: reacts

Evaporation rate: NA

Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: 24°C (75°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-(SIB1828.0)

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, absorb onto clay or vermiculite and dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Vapors may cause immediate or delayed severe eye irritation. Liquid can cause severe conjunctivitis and corneal damage.

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

Oral Toxicity: not determined

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.

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 stored.

Conditions to avoid: Combustible; avoid contact with heat, sparks or open flame.

Incompatibility (materials to avoid): Reacts with water and moisture in air liberating ethanol. Avoid contact with peroxides, oxidizing agents, alcohols, acids.

Hazardous decomposition products: Organic Acid Vapors.

-2-(SIB1828.0)

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor amine 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. (Contains Ethanol)

DOT HAZARD: 3

DOT LABELS: Flammable Liquid

DOT ID No: UN1993

PG: III

Prepared by safety and environmental affairs

ISSUE DATE SIB1828.0: 4/10/09

SUPERSEDES: 11/19/02

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