

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **DI-n-BUTYLDIACETOXYGERMANE tech-90 - GED3150**
 CHEMICAL NAME: DI-n-BUTYLDIACETOXYGERMANE
 SYNONYMS: DIBUTYLGERMANIUMDIACETATE, DIBUTYLDIACETOXYGERMANE
 CHEMICAL FAMILY: ORGANOGERMANE
 FORMULA: C₁₂H₂₄O₄Ge
 HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
DI-n-BUTYLDIACETOXYGERMANE	13971-75-0	>85	not established	not established
OTHER ORGANOGERMANES		>10	not established	not established

PHYSICAL DATA

Boiling Point: 127°C @ 5mm	Freezing Point: <0°C
Specific Gravity: 1.44	Vapor Pressure, 20°: <1mm
Vapor Density (air=1): >1	Solubility in water: insoluble
% volatiles NA	Evaporation rate: NA
Molecular Weight: 304.90	Other: NA
Appearance & Color: Colorless liquid, characteristic odor	

FIRE & EXPLOSION DATA

Flash Point, COC: >110°C (>230°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-(GED3150)

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: Dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed 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.

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

Acute 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

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

Incompatibility (materials to avoid): Bases and reducing agents. Contact with water or moisture slowly generates hydrogen chloride.

Hazardous decomposition products: Organic acid vapors, germanium oxides

-2-(GED3150)

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: CORROSIVE LIQUID, N.O.S. (DI-n-BUTYLDIACETOXYGERMANE)

DOT HAZARD CLASS: 8

DOT LABEL: CORROSIVE LIQUID

DOT ID No: UN 1760

PG: II

Prepared by safety and environmental affairs

ISSUE DATE GED3150: 8/26/11

SUPERSEDES: none

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