

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **DIMETHYLAMINOTRIMETHYLGERMANE - GED3600**

CHEMICAL NAME: DIMETHYLAMINOTRIMETHYLGERMANE

SYNONYMS: TRIMETHYLGERMYLDIMETHYLAMINE

CHEMICAL FAMILY: ORGANOGERMANIUM

FORMULA: C<sub>5</sub>H<sub>15</sub>NGe

HMIS CODES HEALTH: 3 FLAMMABILITY: 4 REACTIVITY: 2

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
DIMETHYLAMINOTRIMETHYLGERMANE	13361-67-6	>95	not established

(OSHA PEL, TWA: dimethylamine = 10ppm)

**PHYSICAL DATA**

Boiling Point: 102-4°C	Freezing Point: < 0°C
Specific Gravity: not determined	Vapor Pressure: N/A
Vapor Density (air=1) >1	Solubility in water: insoluble, reacts
% volatiles: 100	Evaporation rate: NA
Molecular Weight: 161.77	Other: NA
Appearance & Color: Clear to straw liquid; mild odor of amine	

**FIRE & EXPLOSION DATA**

Flash Point, TCC: -10°C (14°F) Autoignition Temp.: not determined  
Flammability Limits- LEL: NA UEL: NA

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-(GED3600)

## ENVIRONMENTAL INFORMATION

Spill response: 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

DIMETHYLAMINOTRIMETHYLGEMANE hydrolyzes, releasing dimethylamine, a poison by ingestion and moderately toxic by inhalation. Four grams of dimethylamino- trimethylgermane can release approximately 1 gram of dimethylamine.

Eye Contact: May cause immediate or delayed severe 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 organogermanes may irritate the respiratory tract. Dimethylamine, the hydrolysis product, is moderately toxic.

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: Reacts slowly with moisture in air, releasing dimethylamine.

Conditions to avoid: Avoid prolonged exposure to air.

Incompatibility (materials to avoid): Oxidizers.

Hazardous decomposition products: Organic Acid Vapors.

-2-(GED3600)

## 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.  
(DIMETHYLAMINOTRIMETHYLGERMANE)

DOT HAZARD CLASS: 3

DOT LABEL: FLAMMABLE

DOT ID No: UN 1993

PG: III

Prepared by safety and environmental affairs

ISSUE DATE GED3600: 4/30/03

SUPERSEDES: 6/15/01

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