

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **TRIMETHYLSILYLBROMOACETATE - SIT8582.0**  
CHEMICAL NAME: TRIMETHYLSILYLBROMOACETATE  
SYNONYMS: TRIMETHYLSILYLBROMOACETIC ACID  
CHEMICAL FAMILY: ORGANOSILANE  
FORMULA: C<sub>5</sub>H<sub>11</sub>BrO<sub>2</sub>Si

HMIS CODES HEALTH: 3 FLAMMABILITY: 3 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
TRIMETHYLSILYLBROMOACETATE	18291-80-0	>95	not determined

**PHYSICAL DATA**

Boiling Point: 57°C at 9mm  
Specific Gravity: 1.30  
Vapor Density (air=1): >1  
% volatiles: 100  
Molecular Weight: 211.13  
Appearance & Color: Clear to straw liquid with distinct mild odor.

Melting Point: <0°C  
Vapor Pressure, 20°C: <1mm  
Solubility in water: very slightly soluble  
Evaporation rate: not determined  
Other: NA

**FIRE & EXPLOSION DATA**

Flash Point, COC : 47°C (117°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.

-1-(SIT8582.0)

## ENVIRONMENTAL INFORMATION

Spill response: May be hazardous to aquatic life if released to open waters. Eliminate sources of ignition. 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: Will cause immediate or delayed severe eye irritation.

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 may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Inhalation Toxicity: Not determined

Oral Toxicity: Not determined.

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

NOTE: The hydrolysis product, bromoacetic acid, is toxic and mutagenic data has been reported.

## 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 under a dry inert atmosphere.

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

Incompatibility (materials to avoid): Avoid contact with oxidizers.

Hazardous decomposition products: Organic acid vapors.

