

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **(METHYLTHIO)TRIMETHYLSILANE - SIM6518.5**

CHEMICAL NAME: 1,1,1,3,3,3-(METHYLTHIO)TRIMETHYLSILANE

SYNONYMS: TRIMETHYLSILYLMETHYLMERCAPTAN

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C<sub>4</sub>H<sub>12</sub>SSi

HMIS CODES HEALTH: 3 FLAMMABILITY: 4 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	% TLV	OSHA PEL
(METHYLTHIO)TRIMETHYLSILANE	3908-55-2	>97 not established (OSHA PEL, methylmercaptan: 0.5ppm)	not established

**PHYSICAL DATA**

Boiling Point: 110-4°C	Melting Point: <0°C
Specific Gravity: 0.850	Vapor Pressure: not determined
Vapor Density (air = 1): >1	Solubility in water: insoluble, reacts
% volatiles: >97	Evaporation rate: not determined
Molecular Weight: 120.29	Other: NA
Appearance & Color: Straw to yellowish-green liquid with strong stench.	

**FIRE & EXPLOSION DATA**

Flash Point, COC: 21°C (71°F)      Autoignition Temp.: not determined  
Flammability Limits: not determined

Extinguishing Media: Carbon dioxide or dry powder.  
Special Fire Fighting Procedures: Highly flammable. Material readily ignited with flame, sparks, friction or heat. Burning material may release toxic and corrosive fumes. Leave the area unless fitted with a self-contained breathing apparatus and fire protective clothing..  
Unusual Fire and Explosion Hazards: Highly flammable material. Vapors can form explosive mixtures.

-1-(SIM6518.5)

## ENVIRONMENTAL INFORMATION

Spill response: Spillage of the material can create widespread odor problem. Leave the area unless fitted with a self-contained breathing apparatus. Small spills can be absorbed into vermiculite or other suitable absorbent. Odor can be attenuated by slurring material adsorbed onto vermiculite with 3-5% aqueous sodium hypochlorite (bleach). Sweep or transfer to a suitable container for disposal.

Recommended Disposal: Incinerate. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

Eye Contact: No information available. Avoid Contact.

Skin contact: Avoid Contact.

Inhalation: Avoid inhalation.

Oral Toxicity: not determined

Inhalation 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. If coughing, shortness of breath or irritation persists seek medical attention.

**INGESTION:** Never give fluids or induce vomiting if patient is unconscious or having convulsions. To conscious individual give plenty of water to dilute ingested material. Get medical attention.

## REACTIVITY DATA

Stability: Stable in sealed containers stored under moisture free atmosphere.

Conditions to avoid: Material decomposes slowly in contact with moist air or with water liberating methyl mercaptan.

Conditions to avoid: Heat and ignition source.

Hazardous decomposition products: Methyl mercaptan, carbon monoxide, carbon dioxide, silicon dioxide and organic fumes.

-2-(SIM6518.5)

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical with caustic scrubber is recommended.  
Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor 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.

Containers require grounding during use.

## TRANSPORTATION

DOT SHIPPING NAME: FLAMABLE LIQUID, N.O.S.  
(1,1,1,3,3,3-(METHYLTHIO)TRIMETHYLSILANE)  
DOT HAZARD CLASS: 3  
DOT LABEL: Flammable Liquid  
DOT ID No: UN1993 PG: II

Prepared by safety and environmental affairs ISSUE DATE: SIM6518.5: 2/16/04  
SUPERSEDES: none

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