

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **O-TRIMETHYLSILYLHYDROXYLAMINE, 95% - SIT8589.8**

CHEMICAL NAME: O-TRIMETHYLSILYLHYDROXYLAMINE

SYNONYMS: TRIMETHYLSILOXYAMINE

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C₃H₁₁NOSi

HMIS CODES HEALTH: 3 FLAMMABILITY: 4 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
TRIMETHYLSILYLHYDROXYLAMINE	22737-33-6	>95	not established
HEXAMETHYLDISILOXANE	107-46-0	<5	not established

PHYSICAL DATA

Boiling Point: 98-9°C

Specific Gravity: 0.860

Vapor Density (air=1): >1

% volatiles: 100

Molecular Weight: 105.21

Appearance & Color: Clear to straw liquid with pungent odor.

Freezing Point: <0°C

Vapor Pressure, 25°: ~100mm

Solubility in water: reacts

Evaporation rate: not determined

FIRE & EXPLOSION DATA

Flash Point, COC : 8°C (48°F)

Autoignition Temp.: not determined

Flammability Limits: not determined

Extinguishing Media: If no greater threat is present, this material should be allowed to burn, since combustion eliminates acute toxic potential. If a greater threat is present, use carbon dioxide or dry chemical.

Special Fire Fighting Procedures: Avoid inhalation, eye and skin contact. Do not breathe fumes or inhale vapors. Wear self-contained air supply.

Unusual Fire and Explosion Hazards: Toxic fumes will develop when material if material is heated to high temperatures (>200°C) without combustion. Combustion or incineration substantially reduces toxicity.

-1-(SIT8589.8)

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: Controlled incineration is preferred. Alternately, in an enclosed vessel with an acid vent scrubber, hydrolyze material by mixing slowly with dilute hydrochloric acid, maintaining acidic pH at all times. Aqueous layer contains hydroxylamine hydrochloride. Organic layer may be incinerated. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe eye irritation. Bloodshot eyes are a result of vapor contact by the eyes or inhalation.

Skin contact: Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Low exposure may cause irritation of the lungs and coughing. Higher levels of exposure may result in methemoglobinemia.

Inhalation Toxicity: Not determined

Oral Toxicity: Not determined.

Chronic Toxicity: Not determined. By analogy with hydroxylamine, this product is expected to be a poison by subcutaneous or intraperitoneal routes. By analogy with hydroxylamine, the product is expected to be moderately toxic by oral routes. By analogy with hydroxylamine, the systemic effects may include methemoglobinemia.

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. Get medical attention.

INHALATION: Move exposed individual to fresh air. Provide oxygen. Mouth-to-mouth respiration presents risks since toxic vapors may transfer. Call a physician.

INGESTION: If swallowed give two glasses of water and induce vomiting. 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: Flammable; avoid contact with heat, sparks or open flame.

Incompatibility (materials to avoid): Reacts with water and moisture in air. Avoid contact with oxidizers, copper and silver compounds.

Hazardous decomposition products: If confined at elevated temperatures (>100°C) explosive conditions may develop.

-2-(SIT8589.8)

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds 50ppm , 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 and laboratory jacket or apron. 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 under dry inert atmosphere.

Storage of product for more than two years should be avoided. Disposal after two years is recommended.

TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE, TOXIC, N.O.S.
(TRIMETHYLSILYLHYDROXYLAMINE)

DOT HAZARD CLASS: 3 SUB: 6.1

DOT LABEL: Flammable Liquid and TOXIC

DOT ID No: UN1992 PG: II

Prepared by safety and environmental affairs ISSUE DATE SIT8589.8: 5/16/08
SUPERSEDES: none

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