

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **PHENYLSELENOTRIMETHYLSILANE - SIP6747.0**

CHEMICAL NAME: PHENYLSELENOTRIMETHYLSILANE

SYNONYMS: TRIMETHYLSILYLSELENOPHENOL

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C₁₉H₁₄SeSi

HMIS CODES HEALTH: 4 FLAMMABILITY: 3 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
PHENYLSELENOTRIMETHYLSILANE	3861-17-5	>95		not established
	(SELENIUM- OSHA PEL: TWA 0.2ppm (skin))			

PHYSICAL DATA

Boiling Point: 92-3°C at 5mm

Specific Gravity: 0.963

Vapor Density (air=1): >1

% volatiles: <3

Molecular Weight: 229.26

Appearance & Color: Clear to straw liquid with disagreeable sulfide-like odor

Freezing Point: <0°C

Vapor Pressure, 25°: <5mm

Solubility in water: insoluble

Evaporation rate (butylacetate=1): <1

Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC : >65°C (>150°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-(SIP6747.0)

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: 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. Garlic odor of breath is a symptom of inhalation or ingestion in related selenium compounds.

Oral Toxicity: Not determined.

The toxicity of the hydrolysis product, selenophenol is: TOXICITY- oral rat, LD50: 6700mg/kg. The related compound diphenylselenide has a reported oral toxicity - rat, LD50: 360mg/kg. The related compound diphenyldiselenide is a potent inhibitor of d-aminolevulinic acid dehydratase and chronic exposure to high doses of this compound has central effects on mouse brain, as well as liver and renal toxicity.

Chronic Toxicity: There are no known chronic effects related to this compound. The hydrolysis product, selenophenol, is anticipated to be a poison by ingestion and by skin contact by comparison to thiophenol.

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 alcohols, acids, oxidizers.

Hazardous decomposition products: Organic acid vapors, selenophenol.

-2-(SIP6747.0)

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: SELENIUM COMPOUND, LIQUID N.O.S.
(PHENYLSELENOTRIMETHYLSILANE)

DOT HAZARD CLASS: 6.1

DOT LABEL: TOXIC

DOT ID No: UN3440

PG: III

Prepared by safety and environmental affairs ISSUE DATE SIP6747.0: 3/15/10
SUPERSEDES: none

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