

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME: **(HEPTADEC AFLUORO-1,1,2,2-TETRAHYDRODECYL)TRICHLOROSILANE - SIH5841.0**
 CHEMICAL NAME: (HEPTADEC AFLUORO-1,1,2,2-TETRAHYDRODECYL)TRICHLOROSILANE
 SYNONYMS: (1H,1H,2H,2H-PERFLUORODECYL)TRICHLOROSILANE
 CHEMICAL FAMILY: ORGANOSILANE
 FORMULA: C₁₀H₄Cl₃F₁₇Si
 HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
(HEPTADEC AFLUORO-1,1,2,2-TETRAHYDRODECYL)TRICHLOROSILANE	78560-44-8	>95	not determined (OSHA PEL for hydrogen chloride, TWA: 5ppm)

PHYSICAL DATA

Boiling Point: 216-8°C	Freezing Point: <0°C
Specific Gravity: 1.70	Vapor Pressure, 25°C: <2mm
Vapor Density (air=1): >1	Solubility in water: reacts
% volatiles: NA	Evaporation rate: NA
Molecular Weight: 581.56	Other: NA
Appearance & Color: Clear to straw-pink liquid with acrid odor of hydrogen chloride	

FIRE & EXPLOSION DATA

Flash Point, COC : >110°C (>230°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 of hydrogen chloride and organic acid vapors may develop when material is exposed to water or open flame.

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ENVIRONMENTAL INFORMATION

Perfluorooctyl compounds have been shown to persist in the environment.

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: Hydrolyze material by mixing with water in a hood. Aqueous layer contains hydrochloric acid which should be neutralized. Organic layer 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: Will produce irritation or contact dermatitis which may be delayed several hours. Prolonged exposure will cause inflammation and chemical burns. 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.

Oral Toxicity- rat, LD50: >5000mg/kg

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: 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): Reacts with water and moisture in air, liberating hydrogen chloride. Avoid contact with alcohols, acids, oxidizers.

Hazardous decomposition products: Organic acid vapors, hydrogen chloride, hydrogen fluoride.

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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 and industrial use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: Chlorosilanes, corrosive, n.o.s.
(HEPTADEC AFLUORO-1,1,2,2-TETRAHYDRODECYL)TRICHLOROSILANE)

DOT HAZARD CLASS: 8

DOT LABEL: Corrosive Liquid

DOT ID No: UN2987

PG: II

Prepared by safety and environmental affairs

ISSUE DATE SIH5841.0: 4/9/10

SUPERSEDES: 8/30/06

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