GELEST, INC.

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MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE

CHEMTREC: 1-800-424-9300

NAME ON LABEL: (HEPTADECAFLUORO-1,1,2,2-TETRAHYDRODECYL)-

TRICHLOROSILANE - SIH5841.0

CHEMICAL NAME: (HEPTADECAFLUORO-1,1,2,2-TETRAHYDRODECYL)TRICHLORO-

SILANE

SYNONYMS: (1H,1H,2H,2H-PERFLUORODECYL)TRICHLOROSILANE

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C10H4Cl3F17Si

HMIS CODES HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 1

INGREDIENTS

IDENTITY CAS NO. % TLV

(HEPTADECAFLUORO-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■ Freezing Point: <0■

Specific Gravity: 1.70 Vapor Pressure at 25 ■: not determined

Vapor Density (air=1): >1 Solubility in water: reacts

% volatiles: N/A Evaporation rate: N/A

Molecular Weight: 581.56 Other: N/A

Appearance & Color: Clear to straw liquid with acrid odor of hydrogen chloride

FIRE & EXPLOSION DATA

Flash Point, COC : >110■ (>230■) Autoignition Temp.: N/A

Flammability Limits- LEL: N/A UEL: N/A

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

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: 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.

Oral Toxicity: Not determined.

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.

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SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is recommended. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination

organic vapor/acid gas respirator.

Eye and Face Protection: Chemical worker■ 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: Chlorosilanes, corrosive, n.o.s.

(heptaDECAFLUORO-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: 5/28/97

SUPERSEDES: 5/2/95

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