

GELEST, INC.

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MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE

CHEMTREC: 1-800-424-9300

NAME ON LABEL: (HEPTADEC AFLUORO-1,1,2,2-TETRAHYDRODECYL)-

TRIETHOXYSILANE - SIH5841.2

CHEMICAL NAME: (HEPTADEC AFLUORO-1,1,2,2-TETRAHYDRODECYL)TRIETHOXY-

SILANE

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

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C₁₆H₁₉O₃F₁₇Si

HMS CODES HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY CAS NO. % TLV

(HEPTADEC AFLUORO-1,1,2,2-TETRAHYDRODECYL)-

TRIETHOXYSILANE 101947-16-4 >95 not determined

PHYSICAL DATA

Boiling Point: 103-6 @ 3mm Freezing Point: <0

Specific Gravity: 1.41 Vapor Pressure at 25: not determined

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

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

Molecular Weight: 610.38 Other: N/A

Appearance & Color: Clear to straw liquid with mild odor of ethanol.

FIRE & EXPLOSION DATA

Flash Point, COC : >85 (>185) 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 fluoride and

organic acid vapors may develop when material is exposed to open flame.

-1-(SIH5841.2)

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.

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, ethanol. Avoid contact with alcohols, acids, oxidizers.

Hazardous decomposition products: At elevated temperatures (>260■) forms organic acid vapors, hydrogen fluoride.

-2-(SIH5841.2)

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: Chemicals, NOI

DOT HAZARD CLASS: Not Regulated

DOT LABEL: Not Required

DOT ID No: Not Required

Prepared by safety and environmental affairs ISSUE DATE SIH5841.2: 5/28/97

SUPERSEDES: 5/11/95

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-3-(SIH5841.2)