

GELEST, INC.

11 East Steel Rd. Morrisville, PA 19067
Phone: (215) 547-1015

MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME: 1-n-OCTADECYL-1,1,3,3,3-PENTACHLORO-1,3-DISILAPROPANE - SIO6632.4

CHEMICAL NAME: 1-n-OCTADECYL-1,1,3,3,3-PENTACHLORO-1,3-DISILAPROPANE

SYNONYMS: 1,1,1,3,3-PENTACHLORO-1,3-DISILAHENEICOSANE

CHEMICAL FAMILY: ORGANOCHLOROSILANE

FORMULA: C₁₉H₃₉Cl₅Si₂

HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
1-n-OCTADECYL-1,1,3,3,3-PENTACHLORO-1,3-DISILAPROPANE	1621184-16-4	>95		not established (ceiling for HCl: 5ppm)

PHYSICAL DATA

Boiling Point: 192-4°C at 0.2mm

Specific Gravity: 1.059

Vapor Density (air = 1): >1

% volatiles: <10

Molecular Weight: 500.95

Appearance & Color: Clear liquid, characteristic odor

Melting Point: <0°C

Vapor Pressure, 20°: <0.01mm

Solubility in water: reacts

Evaporation rate: NA

Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: >110°C (>230°F) Autoignition Temp.: not determined

Flammability Limits: not determined

Extinguishing Media: Water spray or fog, alcohol resistant 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 elevated temperatures or open flame.

-1-(SIO6632.4)

ENVIRONMENTAL INFORMATION

Spill response: Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Incinerate. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe eye irritation. The ability of this material to react and crosslink in the presence of water indicates that contact of the eye by the liquid presents a severe eye hazard potential with the possibility of permanent damage including blindness.

Skin contact: May produce irritation or contact dermatitis. Material generates hydrogen chloride on contact with water or moisture in skin, eyes and mucous membranes and has an irritating, dehydrating effect on overexposed tissue. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation may irritate the respiratory tract. Overexposure can cause lung damage - pulmonary toxin.

Oral Toxicity: not determined
Inhalation: not determined
Eye Irritation: not determined

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. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. To conscious individual give one full cup of water to dilute ingested material. Get medical attention.

REACTIVITY DATA

Stability: Stable in sealed containers.

Conditions to avoid: Material decomposes slowly in contact with moist air or with water liberating methanol. Avoid contact with oxidizing agents.

Hazardous decomposition products: Hydrogen chloride, organic acid vapors and silicon dioxide.

Hazardous polymerization: Will not occur.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor 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: CHLOROSILANES, N.O.S.

(1-n-OCTADECYL-1,1,3,3,3-PENTACHLORO-1,3-DISILAPROPANE)

DOT HAZARD CLASS: 8

DOT LABEL: CORROSIVE

DOT ID No: UN 2987

PG: II

Prepared by safety and environmental affairs MSDS ISSUE DATE SIO6632.4: 10/31/14
SUPERSEDES: none

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

-3-(SIO6632.4)

© 2014 Gelest Inc. Morrisville, PA 19067