

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **2-CHLOROETHYLSILANE - SIC2268.5**
CHEMICAL NAME: 2-CHLOROETHYLSILANE
SYNONYMS: 1-(TRIHYDRIDOSILYL)-2-CHLOROETHANE
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: C₂H₇ClSi

HMIS CODES HEALTH: 3 FLAMMABILITY: 4 REACTIVITY: 1

INGREDIENTS

| IDENTITY | CAS NO. | % | TLV | OSHA PEL |
|---------------------|------------|-----|-----------------|----------|
| 2-CHLOROETHYLSILANE | 18165-19-0 | >95 | not established | |

PHYSICAL DATA

| | |
|--|--------------------------------|
| Boiling Point: 69-71°C | Melting Point: <0°C |
| Specific Gravity: 0.90 | Vapor Pressure: not determined |
| Vapor Density (air = 1): >1 | Solubility in water: insoluble |
| % volatiles: > 95 | Evaporation rate: N/A |
| Molecular Weight: 94.61 | Other: N/A |
| Appearance & Color: Clear liquid, mild odor. | |

FIRE & EXPLOSION DATA

Flash Point, COC: <20°C (<68°F) Autoignition Temp.: not determined
Flammability Limits: not determined

Extinguishing Media: Water spray or fog, 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-(SIC2268.5)

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: May cause immediate or delayed severe eye irritation.

Skin contact: No information available. Avoid Contact.

Inhalation: No information available. Avoid inhalation.

Oral Toxicity: not determined

Inhalation Toxicity: 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 under dry inert atmosphere below 5°C. The product can generate small amounts of hydrogen when exposed to alkalis and protic materials such as water and alcohol in combination with metal salts such as aluminum chloride or precious metals such as platinum. It forms ethylene and pyrophoric chlorosilane on heating above 100°C

Conditions to avoid: Store away from alkalis, oxidizers, metal salts, precious metals.

Hazardous decomposition products: Hydrogen, formaldehyde, thylene, hydrogen chloride, carbon monoxide, organic acid vapors and silicon dioxide.

-2-(SIC2268.5)

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, below 5°C

TRANSPORTATION

DOT SHIPPING NAME: FLAMABLE LIQUID, N.O.S. (2-CHLOROETHYLSILANE)

DOT HAZARD CLASS: 3

DOT LABEL: Flammable Liquid

DOT ID No: UN1993

IMO IMDG- code: 3.2

PG: II

Prepared by safety and environmental affairs

ISSUE DATE: SIC2268.5: 6/4/03

SUPERSEDES: 10/4/99

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