

**MATERIAL SAFETY  
DATA SHEET**

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NAME USED ON LABEL: VINYLTRICHLOROSILANE  
CHEMICAL NAME: VINYLTRICHLOROSILANE  
SYNONYMS: TRICHLOROVINYLSILANE  
CHEMICAL FAMILY: ORGANOSILANE  
FORMULA:  $C_2H_3Cl_3Si$   
HMIS CODES HEALTH: 3 FLAMMABILITY: 4 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
VINYLTRICHLOROSILANE	75-94-5	>97	AIHA WEEL: 1 ppm ceiling

(OSHA PEL for hydrogen chloride, TWA: 5ppm)

**PHYSICAL DATA**

Boiling Point: 93 °C	Freezing Point: -95°C
Specific Gravity: 1.24	Vapor Pressure at 23°C: 60mm
Vapor Density (air = 1): ~5	Solubility in water: reacts
% volatiles: >25%	Evaporation rate: not determined
Molecular Weight: 161.49	Viscosity: 0.5 cSt
Appearance & Color: Clear to straw liquid with acrid odor of hydrogen chloride	

**FIRE & EXPLOSION DATA**

Flash Point, COC : -21°C (69°F) Autoignition Temp.: not determined  
Flammability Limits: not determined  
Extinguishing Media: Alcohol resistant foam, carbon dioxide, dry chemical. Use of high expansion foam (100:1) is recommended to cover flames.  
Special Fire Fighting Procedures: Use only dry media to extinguish flames. Water spray or fog should only be used to knock down hydrogen chloride vapors in areas downwind from the fire. 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.

**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.  
Liquid layer contains hydrochloric acid which should be neutralized. Solids may be landfilled. Alternately, absorb onto clay or vermiculite and dispose of absorbent

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Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose, LC: Lethal Concentration; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; HMIS: Hazardous Material information System; CAS No.: Chemical Abstract Service Registration Number  
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material as solid waste. Follow all chemical pollution control regulations.

### **HEALTH HAZARD DATA**

Eye Contact: Will cause immediate or delayed severe chemical burns, including conjunctivitis and corneal damage.

Skin contact: Will produce irritation or contact dermatitis. Can cause severe chemical burns. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors will irritate the respiratory tract. Overexposure may produce severe tissue damage.

Inhalation Toxicity: not determined

Oral Toxicity: 3160mg/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: Wipe off excess chemical gently and without delay. After the bulk of material is removed by wiping, 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.

NOTE: Material may form a siloxane polymer on the skin, eyes or in the lungs.

### **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.

### **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.

Containers required grounding during use.

### **TRANSPORTATION**

DOT SHIPPING NAME: VINYLTRICHLOROSILANE

DOT HAZARD CLASS: 3

DOT LABEL: Flammable Liquid and Corrosive

DOT ID No: UN1305 PG: I

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