

**MATERIAL SAFETY
DATA SHEET**

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NAME ON LABEL: CHLOROMETHYLTRICHLOROSILANE
CHEMICAL NAME: CHLOROMETHYLTRICHLOROSILANE
SYNONYMS: (TRICHLOROSILYL)CHLOROMETHANE
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: CH₂Cl₄Si

HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
CHLOROMETHYLTRICHLOROSILANE HCl (HCl = 5ppm)	1558-25-4	>95	35ppm equivalent for

PHYSICAL DATA

Boiling Point: 117-8°C	Freezing Point: < 0°C
Specific Gravity: 1.465	Vapor Pressure: not determined
Vapor Density (air=1): >1	Solubility in water: reacts
% volatiles: N/A	Evaporation rate: NA
Molecular Weight: 183.92	Other: N/A

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

FIRE & EXPLOSION DATA

Flash Point, COC: 69°C (156°F) Autoignition Temp.: not determined
Flammability Limits: not determined
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 elevated temperatures 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. 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.

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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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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 organochlorosilanes will irritate the respiratory tract. Overexposure may produce coughing, headache and nausea. Inhalation of large amounts is expected to cause necrosis of tracheal epithelium, bronchitis and interstitial pneumonia by analogy to animal tests for tetrachlorosilane.

Oral Toxicity: Not determined.

Chronic Toxicity: There are no known chronic effects related to this compound.

TOXICITY- ipr rat, LD100: 150mg/kg

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.

Note to physician: Organochlorosilanes react with water to form hydrochloric acid, consequently treatment for acid burns may be considered.

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.

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 peroxides, oxidizing agents, alcohols, amines.

Hazardous decomposition products: Organic Acid Vapors.

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.

TRANSPORTATION

DOT SHIPPING NAME: CHLOROSILANES, CORROSIVE, N.O.S.
(CHLOROMETHYLTRICHLOROSILANE)

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DOT HAZARD CLASS: CORROSIVE
DOT LABEL: CORROSIVE
DOT ID No: UN 2987 PG II

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