

**MATERIAL SAFETY
DATA SHEET**

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NAME USED ON LABEL: CHLOROMETHYLTRIMETHOXYSILANE
CHEMICAL NAME: CHLOROMETHYLTRIMETHOXYSILANE
SYNONYMS: TRIMETHOXYCHLOROMETHYLSILANE,
CHEMICAL FAMILY: ORGANOSILANE ESTER
FORMULA: C₄H₁₂ClO₃Si
HMIS CODES HEALTH: 3 FLAMMABILITY: 4 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO	%	TLV OSHA PEL
CHLOROMETHYLTRIMETHOXYSILANE (TLV for methanol: 200ppm - skin)	5926-26-1	>95	not established

PHYSICAL DATA

Boiling Point: 151°C	Melting Point: <0°C
Specific Gravity: 1.12	Vapor Pressure, 25°C: not determined
Vapor Density (air = 1): > 1	Solubility in water: insoluble, reacts
% volatiles: 100	Evaporation rate (Butyl Acetate = 1): <1
Molecular Weight: 170.67	Other: NA
Appearance & Color: Clear liquid, characteristic odor	

FIRE & EXPLOSION DATA

Flash Point, TCC: 26°C (79°F) Autoignition Temp.: not determined
Flammability Limits: not determined
Extinguishing Media: Water spray or fog, foam, carbon dioxide, dry chemical.
Special Fire Fighting Procedures: Vapors extremely dangerous to eyes. 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.

ENVIRONMENTAL INFORMATION

Spill response: With adequate eye protection, absorb material and transfer to a suitable container for hydrolysis and disposal.
Recommended Disposal: In a well ventilated area with adequate personal protection, hydrolyze material by mixing with cold water. Resulting waste is a solid containing methanol. Follow all chemical pollution control regulations for land fill.

HEALTH HAZARD DATA

Eye Contact: Causes immediate or delayed severe eye irritation and possible blindness. Even mild exposures can cause conjunctivitis and corneal scarring.

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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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Skin contact: May produce irritation or contact dermatitis. Material generates methanol 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. Under experimental conditions, the kidney was found to be the target organ for similar methoxysilanes. Overexposure can cause lung damage - pulmonary toxin.

Ingestion: Oral toxicity is associated with methanol, a hydrolysis product, which may cause nausea, vomiting, headache and visual effects including blindness.

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.

NOTE TO PHYSICIAN: This product reacts with water in the acid contents of the stomach to form methanol. The combination of visual disturbances, metabolic acidosis and formic acid in urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10 mls/hour) allows methanol to be preferentially oxidized and reduces production of methanol metabolites. Acidosis must be treated with intravenous administration of sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid-base balance.

REACTIVITY DATA

Stability: Stable

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

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

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

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For research and industrial use only.
Storage and Handling: Store in sealed containers.
Containers require grounding during use.

TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.
(CHLOROMETHYLTRIMETHOXYSILANE)
DOT HAZARD CLASS: 3
DOT LABEL: FLAMMABLE LIQUID
DOT ID No: UN1993 PG III

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