

**MATERIAL SAFETY
DATA SHEET**

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NAME USED ON LABEL: 3-CHLOROPROPYLTRIETHOXY-SILANE
CHEMICAL NAME: 3-CHLOROPROPYLTRIETHOXY-SILANE
SYNONYMS: TRIETHOXY(CHLOROPROPYL)SILANE
CHEMICAL FAMILY: ORGANOSILANE ESTER
FORMULA: C₉H₂₁ClO₃Si
HMIS CODES HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY

3-CHLOROPROPYLTRIETHOXY-SILANE

CAS NO.	%	TLV OSHA PEL
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5089-70-3	>95	not established
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ETHANOL 64-17-5	<5	1000ppm
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PHYSICAL DATA

Boiling Point: 100-2°C at 10mm

Melting Point: <0°C

Specific Gravity: 1.01

Vapor Pressure, 25°C: <1mm

Vapor Density (air=1): >1

Solubility in water: insoluble, reacts slowly

% volatiles: NA

Evaporation rate (Butyl Acetate = 1): <1

Molecular Weight: 240.80

Other: NA

Appearance & Color: Clear liquid, characteristic odor

FIRE & EXPLOSION DATA

Flash Point, TCC: 78°C (172°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.

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: May produce irritation or contact dermatitis. Material generates

- 1 -

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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ethanol 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.

Note: The hydrolysis product of this compound is ethanol. Overexposure to ethanol by skin absorption, inhalation or ingestion may have a narcotic effect (headache, nausea, drowsiness). Ethanol is metabolized to acetaldehyde and acetic acid which in large quantities result in metabolic acidosis, CNS depression and death due to respiratory arrest.

Oral Toxicity: not determined

Draize test, eye: 47 (moderate irritant)

Draize test, skin: 1.5 (slight irritant)

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

Conditions to avoid: Material decomposes slowly in contact with moist air or with water liberating ethanol; TLV(TWA) = 1000ppm. Avoid contact with oxidizing agents.. Hazardous decomposition products: Ethanol, 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

For research and industrial use only.

Storage and Handling: Store in sealed containers.

Containers require grounding during use.

TRANSPORTATION

DOT SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S.

- 2 -

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DOT HAZARD CLASS: Not Regulated
DOT LABEL: Not Required
DOT ID No: Not Required

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- 3-

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