

**MATERIAL SAFETY
DATA SHEET**

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NAME ON LABEL: (3-TRIMETHOXYSILYLPROPYL)DIETHYLENETRIAMINE
CHEMICAL NAME: (3-TRIMETHOXYSILYLPROPYL)DIETHYLENETRIAMINE
SYNONYMS:
N-[N'-(2-AMINOETHYL)AMINOETHYL]3-AMINOPROPYLTRIMETHOXYSILANE
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: C₁₀H₂₇N₃O₃Si
HMIS CODES HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 1

INGREDIENTS

IDENTITY

(3-TRIMETHOXYSILYLPROPYL)DIETHYLENETRIAMINE

CAS NO.	%	TLV	OSHA PEL
35141-30-1	>95	not established	not established
METHANOL 67-56-1	<2	200ppm – skin	

PHYSICAL DATA

Boiling Point: 114-8°C at 2mm	Freezing Point: <0°C
Specific Gravity: 1.03	Vapor Pressure, 20°: <1mm
Vapor Density (air=1): >1	Solubility in water: reacts
% volatiles: <30	Evaporation rate (butyl acetate =1): <1
Molecular Weight: 265.43	Other: NA
Appearance & Color: Clear to straw liquid with amine (ammonia-like) odor.	

FIRE & EXPLOSION DATA

Flash Point, COC: 137°C (279°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 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: 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: Vapors may cause immediate or delayed severe eye irritation.

Liquid can cause severe conjunctivitis and corneal damage.

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 aminoalkylsilanes will irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Oral Toxicity - rat, LD50: >2000mg/kg: Oral toxicity is associated with methanol, a hydrolysis product, which causes nausea, vomiting, headache, visual effects including blindness. Onset of symptoms may be delayed up to 48 hours.

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: 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.

REACTIVITY DATA

Stability: Stable in sealed containers stored.

Conditions to avoid: Combustible; avoid contact with heat, sparks or open flame.

Incompatibility (materials to avoid): Reacts with water and moisture in air liberating methanol. Avoid contact with peroxides, oxidizing agents, alcohols, acids. Hazardous decomposition products: Organic acid vapors, methanol.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor amine 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: CORROSIVE LIQUID, N.O.S.

(3-TRIMETHOXYSILYLPROPYL)DIETHYLENETRIAMINE)

DOT HAZARD: 8

DOT LABELS: CORROSIVE

DOT ID No: UN1760 PG: III

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