

**MATERIAL SAFETY
DATA SHEET**

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NAME USED ON LABEL: AMINOPROPYLMETHYLDIETHOXYSILANE
CHEMICAL NAME: 3-AMINOPROPYLMETHYLDIETHOXYSILANE
SYNONYMS: 3-(DIETHOXYMETHYLSILYL)PROPYLAMINE
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: C₈H₂₁NOSi
HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
3-AMINOPROPYLMETHYLDIETHOXYSILANE	3179-76-8	>95	not established

PHYSICAL DATA

Boiling Point: 85-8°C at 8mm	Freezing Point: < -20°C
Specific Gravity: 0.92	Vapor Pressure: < 2mm
Vapor Density (air=1): >1	Solubility in water: reacts
% volatiles NA	Evaporation rate (butyl acetate = 1): <1
Molecular Weight: 191.34	Other: NA

Appearance & Color: Clear to straw liquid with amine (ammonia-like) odor.

FIRE & EXPLOSION DATA

Flash Point: 85°C (185°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: Hydrolyze material by mixing with water in a hood. 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.

HEALTH HAZARD DATA

Eye Contact: Vapors may cause immediate or delayed severe eye irritation. Liquid can cause severe conjunctivitis and corneal damage

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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 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: 4760mg/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: 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 ethanol. Avoid contact with peroxides, oxidizing agents, alcohols, acids.

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 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 in the dark.

TRANSPORTATION

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

DOT HAZARD: Not regulated

DOT LABELS: Not Regulated

DOT ID No: Not Regulated

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