

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **3-AMINOPROPYLTRIETHOXYSILANE - SIA0610.0**

CHEMICAL NAME: 3-AMINOPROPYLTRIETHOXYSILANE

SYNONYMS: 3-(TRIETHOXYSILYL)PROPYLAMINE

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C₉H₂₃NO₃Si

HMIS CODES HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
3-AMINOPROPYLTRIETHOXYSILANE	919-30-2	>95	not established	not established
ETHANOL	64-17-5	<1	1000ppm	1000ppm

PHYSICAL DATA

Boiling Point: 122-3°C at 30mm

Specific Gravity: 0.951 @ 25°C

Vapor Density (air=1): >1

% volatiles: <40

Molecular Weight: 221.37

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

Freezing Point: <0°C

Vapor Pressure, 100°: 10mm

Solubility in water: reacts

Evaporation rate (butyl acetate =1): <1

Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: 104°C (220°F) Autoignition Temp.: not determined

Flammability Limits- LEL: NA UEL: NA

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.

-1-(SIA0610.0)

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.

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. Primary irritation index: 6.50

Inhalation: Inhalation of vapors or particulates of aminoalkylsilanes will irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Oral Toxicity - rat, LD50: 1780mg/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.

-2-(SIA0610.0)

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, BASIC ORGANIC, N.O.S.
(3-AMINOPROPYLTRIETHOXYSILANE)

DOT HAZARD: 8

DOT LABELS: CORROSIVE

DOT ID No: UN3267

PG: III

Prepared by safety and environmental affairs

ISSUE DATE SIA0610.0: 3/25/03

SUPERSEDES: 9/24/01

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