



SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

Product Identifier	(3-AMINOPROPYLE)TRIETHOXYSILANE
Other identification (Chemical name, Commercial name, Synonymous)	3-(TRIETHOXYSILYL)-1-PROPANAMINE; 3-(TRIETHOXYSILYL)PROPYLAMINE; AMINO-3 PROPYL TRIETHOXY SILANE; Amino-3 propyltriéthoxysilane; gamma-Aminopropyltriethoxysilane; 1-PROPANAMINE, 3-(TRIETHOXYSILYL)- ; 3-AMINOPROPYLTRIETHOXYSILANE
Product code	AP-0868
Chemical formula	$C_9H_{23}NO_3Si$
Molar weight	221.37
Recommended use and Restrictions on use	For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes.
Supplier	LABORATOIRE MAT 610, rue Adanac Québec Québec G1C 7B7 418-660-8666 Mon-Fri 8h-16h www.labmat.com labmat@labmat.com
Emergency phone	418-660-8666 Mon-Fri 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS	2025-10-28

SECTION 02 - HAZARDS IDENTIFICATION

WHIMS CANADA

- Skin corrosion/irritation - Skin corrosion - category 1B
- Serious eye damage/eye irritation - Eye irritation - category 1
- Health hazard not otherwise classified - category 1
- Acute toxicity - Oral - category 4
- Respiratory or skin sensitization - Skin sensitize - category 1
- Specific target organ toxicity - Single exposure - category 3

PICTOGRAMS



Signal Word

DANGER

Hazards statements (H)

- Causes severe skin burns and eye damage
- Causes serious eye damage
- Causes other adverse health effects that differ from other hazard categories after acute or repeated exposures: Corrosive to the respiratory tract.
- Harmful if swallowed
- May cause an allergic skin reaction
- May cause respiratory irritation

Precautionary statements (P)

- Do not breathe mists, gases, vapors and other fumes, or the product itself.
- Wear protective gloves (nitrile, butyl, neoprene, Viton®), protective clothing and eye and face protection.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse with water.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- Immediately call a POISON CENTER or a physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Store locked up.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
- Caution is advised.
- IF SWALLOWED: Call a POISON CENTER or a physician if you feel unwell.
- Rinse mouth.
- IF ON SKIN: Wash with plenty of water
- If skin irritation or a rash occurs: Get medical attention.
- Use only outdoors or in a well-ventilated area.
- Call a POISON CENTER or a doctor or if you feel unwell.
- Store in a well ventilated place. Keep container tightly closed.

Other dangers

NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)

Health 2
Fire 1
Reactivity 1
Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
(3-Aminopropyle)triethoxysilane	919-30-2	<=100

SECTION 04 - FIRST AID MEASURE

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: The product is a corrosive material. Chemical burns of the skin, eyes and respiratory and digestive mucous membranes. Spasms. Pulmonary edema. Burning sensation. Cough. Laryngitis. Inflammation of the bronchi. Breathing difficulties. Headaches. Nausea and vomiting. Kidney damage. Skin sensitizer. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. Ref. section 11.
Immediate medical attention and special treatment, if necessary	Treat according to symptoms. Show this sheet to the attending physician.

SECTION 05 - FIREFIGHTING MEASURES

Suitable extinguishing media	Carbon dioxide (CO ₂), Foam, Dry powder.
Unsuitable extinguishing media	Do not use water.
Combustion products	Hazardous combustion products formed under fire conditions: Carbon oxides. Nitrogen oxides (NO _x). Silicon oxides.
Specific hazards of the dangerous product	Highly concentrated vapors in the air can ignite or even explode if exposed to an intense ignition source. Vapors are heavier than air and may spread along floors. Keep the product and empty containers away from heat and ignition sources. May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures	Evacuate personnel to safe areas. Cut off all sources of ignition. Use anti-spark tools and anti-explosion equipment. Avoid the accumulation of charges electrostatic. When handling, wear appropriate safety equipment (reference Section 8 for protective equipment to be used). Ensure a good ventilation. Use NIOSH cartridge respiratory protection if necessary or for larger spills. Beware of vapors accumulating to form explosive concentrations.
Methods and materials for containment and cleaning up	Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Dispose of residues in a container for disposal of hazardous materials. Discharge into the environment must be avoided.

SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Keep container tightly closed in a dry, well-ventilated place. Keep container tightly closed and store away from heat, moisture, and incompatible products (ref. section 10). Keep away from sources of ignition - No smoking. Take measures to prevent the accumulation of electrostatic charges. Protect from the sun's rays.
Methods of handling	Avoid contact withh eyes, skin and clothing. Avoid ingestion and inhalation. Wear personal protective equipment (ref. section 8) when handling. Always ensure good ventilation. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

WORKPLACE CONTROL PARAMETERS

Component	CAS-No.	Value
(3-Aminopropyle)triéthoxysilane	919-30-2	No occupational exposure limits established by region-specific regulators - Quebec, Alberta, Ontario, British Columbia.

Respiratory	If permitted levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.
Gloves	Handle with protective gloves. Suggested material: Nitrile. Butyl. Neoprene. Viton® (Fluoroelastomer). The type, thickness and length of the glove must be chosen according to the use, the concentration of the product, as well as the duration of use. Replace gloves regularly for better protection.
Eyes	Safety goggles with safety shutters.
Shoes	Use safety shoes.
Clothes	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Engineering control	Use fan. Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	Colorless
Odour	Amine-like
Odour threshold	Data not available
Melting point and freezing point	-70°C
Boiling point	217-230°C
Flammability	Combustible
Lower flammable / Explosive limit	0.8%V
Upper flammable / Explosive limit	4.5%V
Flash point	90.6°C
Auto-ignition temperature	270 °C @ 100.93 - 101.07 kPa
Decomposition temperature	Data not available
pH	11 @ 20g/L
Kinematic viscosity	1.8 mm ² /s
Solubility	Decomposes in water
Partition coefficient water/n-octanol	-4 - 1.7 @ 20 °C and pH 2 - 9
Vapour pressure	8 Pa @ 25 °C
Relative density	0.95g/ml @20°C
Vapour density	7.63 (air =1)
Particle characteristics	Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Flammable product, may ignite with source of ignition, if temperature above flash point. May react violently with incompatible substances. May ignite on contact with oxidants if heat and oxygen are present in sufficient quantities. Basic product, reacts violently with strong acids.
Chemical stability	Sensitive to heat.
Possibility of hazardous reactions	Flammable liquid and vapours. Vapours can form explosive mixtures with air when heated. May react violently with incompatible substances.
Conditions to avoid	Avoid the build-up of static electricity. Avoid contact with incompatible materials. Heat, flames and sparks.
Incompatible materials	Strong oxidizers. Acids. Water.
Hazardous decomposition products	Carbon monoxide (CO), Carbon dioxide (CO ₂). Nitrogen oxides (NO _x). Silicon oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

(3-AMINOPROPYLE)TRIETHOXYSILANE

Routes of exposure	Ingestion, inhalation, skin and eye contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Causes serious eye damage.
- Skin	Causes skin burns.
- Inhalation	Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Cough.
Acute toxicity (Ingestion)	Some sources report having had cases of: Diarrhea. Sluggishness. Lacrimation. Nausea and vomiting. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
Chronic exposure effects / symptoms	Skin sensitization. Burning sensation. May cause damage to: Target organs: Kidney. Liver. Asthmatic. Laryngitis. Some sources report having had cases of: Kyphosis (Spinal curvature). To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 1570 to 3650 mg/kg bw. LD50 Dermal - Rabbit - 4290 mg/kg bw.
CL50 (specify species and route of entry)	LC50 Inhalation - 6h - Rat - 5-16 ppm.

SECTION 12 - ECOLOGICAL INFORMATION

(3-AMINOPROPYLE)TRIETHOXYSILANE

Ecotoxicity	Toxicity to fish: Danio rerio (poisson zèbre). >934 mg/l. Toxicity to daphnia and other aquatic invertebrates: Static test EC50 - Daphnia magna (Water flea) - 331 mg/l. Toxicity to algae: Static test - EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 1000 mg/l - 72h.
Persistence and degradability	Biodegradability aerobic - Duration of exposure 28 days - Result: 67%. Not readily biodegradable.
Bioaccumulative potential	Accumulation is not expected.
Mobility in soil	Data not available.
Other adverse effects	Avoid release to the environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	UN2735
UN Proper shipping name	AMINES LIQUIDES CORROSIVES, N.S.A. ((3-Aminopropyle)triéthoxysilane)
Transport hazard class(es)	Matières corrosives 8
Packing group	II
Limited quantity index	1 L
ERAP Index	-
Special precautions	16

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	<ul style="list-style-type: none">- Skin corrosion/irritation - Skin corrosion - category 1B- Serious eye damage/eye irritation - Eye irritation - category 1- Health hazard not otherwise classified - category 1- Acute toxicity - Oral - category 4- Respiratory or skin sensitization - Skin sensitize - category 1- Specific target organ toxicity - Single exposure - category 3
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SECTION 16 - OTHER INFORMATION

CNESST: Commission des normes, de l'équité et de la santé et sécurité au travail
NIH: National institute of health (U.S. National Library of Medicine)
ECHA: Agence Européenne de Chimie
ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
VECD: Valeur d'exposition courte durée
VEMP: Valeur d'exposition moyenne pondérée
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration
TLV : Threshold limit value
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling
RSST: Règlement sur la santé et sécurité au travail (Québec)
INRS: l'Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles (France)

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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