



SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

Product Identifier	3-GLYCIDOXYPROPYLTRIMETHOXYSILANE
Other identification (Chemical name, Commercial name, Synonymous)	(3-(2,3-EPOXYPROPOXY)PROPYL)TRIMETHOXYSILANE; GAMMA-GLYCIDOXYPROPYLTRIMETHOXYSILANE; SILANE, TRIMETHOXY(3-(OXIRANYLMETHOXY)PROPYL)-; TRIMETHOXY(3-(OXIRANYLMETHOXY)PROPYL)SILANE.
Product code	GP-0877
Chemical formula	C ₉ H ₂₀ O ₅ Si
Molar weight	236.34
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 - Serious eye damage/eye irritation - Eye irritation - category 1

PICTOGRAMS



Signal Word DANGER

Hazards statements (H) - Causes serious eye damage

Precautionary statements (P) - Wear protective gloves (nitrile, butyl, neoprene), protective clothing and eye and face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or a physician.

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

Health 2
Fire 1
Reactivity 1
Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
3-GLYCIDOXYPROPYLTRIMETHOXYSILANE	2530-83-8	<=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. 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: Eyes irritation. Skin irritation. Conjunctivitis. 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	Data not available.
Combustion products	Hazardous combustion products formed under fire conditions: Carbon dioxide. Carbon oxides. Silicon dioxide.
Specific hazards of the dangerous product	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. 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. Cut off all sources of ignition. Avoid breathing in vapours, spray mists or gases.
Methods and materials for containment and cleaning up	Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Discharge into the environment must be avoided.

SECTION 07 - HANDLING AND STORAGE

- Conditions for safe storage** Store in a cool, dry, and well-ventilated place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products (ref. section 10).
- 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. 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-GLYCIDOXYPROPYLTRIMETHOXYSILANE	2530-83-8	No occupational exposure limits established by region-specific regulators - Quebec, Alberta, Ontario, British Columbia.

- Respiratory** If work under the hood is not possible, or if the permissible levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.
- Gloves** Handle with protective gloves. Suggested material: Nitrile. Butyl. Neoprene. 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	Data not available.
Odour threshold	Data not available.
Melting point and freezing point	Data not available.
Boiling point	260.4 °C @ 101.325 kPa.
Flammability	Yes.
Lower flammable / Explosive limit	Data not available.
Upper flammable / Explosive limit	Data not available.
Flash point	135,00 °C open cup.
Auto-ignition temperature	236 °C @ 97.7 - 98.4 kPa.
Decomposition temperature	Data not available.
pH	Data not applicable.
Kinematic viscosity	3.43 mm ² /s.
Solubility	Soluble in water.
Partition coefficient water/n-octanol	0.5 @ 20 °C and pH 7 .
Vapour pressure	1.1 Pa @ 25 °C.
Relative density	1,07 g/ml à 20 °C.
Vapour density	8,14. (air=1).
Particle characteristics	Data not applicable.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances.
Chemical stability	Stable under recommended storage conditions. Sensitive to heat.
Possibility of hazardous reactions	May react violently with incompatible substances.
Conditions to avoid	Avoid moisture. Avoid contact with incompatible materials and extreme temperatures.
Incompatible materials	Acids. Bases. Oxydants. Peroxides.
Hazardous decomposition products	Carbon monoxide (CO), Carbon dioxide (CO ₂). Silicon dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

3-GLYCIDOXYPROPYLTRIMETHOXYSILANE

Routes of exposure	Ingestion, inhalation, skin and eye contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation. Inflammation of the conjunctiva. Causes serious eye damage.
- Skin	May cause skin irritation.
- Inhalation	May irritate the respiratory system.
Acute toxicity (Ingestion)	To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
Chronic exposure effects / symptoms	To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 7.01 g/kg. LD50 Dermal - Rabbit - 3.97 mL/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4 h - > 5.3 mg/L.

SECTION 12 - ECOLOGICAL INFORMATION

3-GLYCIDOXYPROPYLTRIMETHOXYSILANE

Ecotoxicity	Toxicity to fish: LC50 - Cyprinus carpio (Carp) - 55 mg/L, 96h.
Persistence and degradability	Soluble in water. Persistence is unlikely based on information provided.
Bioaccumulative potential	Data not available.
Mobility in soil	Probable mobility in the environment due to its solubility in water.
Other adverse effects	Data not available.

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	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA

- Serious eye damage/eye irritation - Eye irritation - category 1

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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