



Centre Anti-Poison pour le Québec: (800) 463-5060

Tél. (Qc): (418) 660-8666 / 800-890-8666


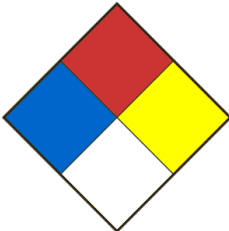
Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier 2-ETHOXYETHANOL		Product Use Laboratory use	
Chemical formula C ₄ H ₁₀ O ₂		Product code ER-0104	Molar weight 90,12
Chemical name / Commercial name / Synonymous 2-Ethoxyethanol, Cellosolve®, Ethylene glycol, monoethyl ether Ethyl glycol			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
City Québec		Province Québec	
Postal code G1C 7B7	Internet www.labmat.com	Phone number 418-660-8666 / 800-890-8666	
Emergency phone	CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS 4/25/2019	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Flammable liquids category 3 Acute toxicity - Dermal category 1
Signal Word	DANGER
Hazards statements (H)	H226 Flammable liquid and vapour. H310 Fatal in contact with skin.
Precautionary statements (P)	<p>P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical/ventilating/lighting equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P262 Do not get in eyes, on skin, or on clothing.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P310 Immediately call a POISON CENTER or doctor/physician.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.</p> <p>P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon dioxide for extinction.</p> <p>P403 + P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p>
PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	<p>Health 1</p> <p>Fire 2</p> <p>Reactivity 0</p> <p>Special danger</p>

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
2-Ethoxyethanol	110-80-5	<=100

SECTION 04 - FIRST AID MEASURES

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	Remove soiled clothing. Wash with soap and plenty of water. Take victim immediately to hospital.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	Do NOT induce vomiting. If the person is conscious, rinse the mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	Yes
Ignition conditions	Heat, sparks and open flame.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, or dry chemical. Further information Use water spray to cool unopened containers.
Unsuitable extinguishing media	Data not available.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon Oxides.
Special fire and explosion hazards	May react violently with incompatible products (ref .Section 10) Be careful with vapors that accumulate to form explosive concentrations. Vapors can accumulate in areas bass.
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

Methods and materials for containment and cleaning up / Personnal precautions, protective equipment	Evacuate personnel to safe areas. Cut off all sources of ignition. When handling, wear appropriate safety equipment. Ensure adequate ventilation. Avoid breathing vapours, mist or gas. Wear respiratory protection. Contain and collect spilled material with an antistatic vacuum or wet brush. Dispose of residues in a container provided for the disposal of hazardous materials. Discharge into the environment must be avoided.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Methods of handling	Always open containers slowly to allow any excess pressure to vent. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Composants	No.-CAS	Paramètres de contrôle	Valeur	Base
2-Ethoxyethanol	110-80-5	TWA	0.1 ppm 0.4 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Substance may be readily absorbed through skin.			
		TWA	5 ppm	Canada. British Columbia OEL
	Adverse reproductive effect Contributes significantly to the overall exposure by the skin route.			
		TWAEV	5 ppm 18 mg/m3	Canada, Ontario OELs
	Skin			
		TWAEV	5 ppm 18 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	Skin (percutaneous)			
		TWA	5 ppm	USA.ACGIH Threshold Limit Value (TLV)

Data source	Sigma-Aldrich.
Ventilation	Use fan.
Respiratory	If work under the hood is not possible, or if the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Safety goggles with safety shutters.
Shoes	Safety shoes.
Clothing	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	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.
Appearance	Incolore.
Odour	Donnée non disponible..
Odour threshold	Data not available
pH	Donnée non disponible..
Melting point / Freezing point	-70°C
Initial boiling point	135°C
Boiling range	Data not available
Flash point	42°C
Evaporation rate	Data not available
Flammability	Yes
Lower flammable / Explosive limit	14%
Upper flammable / Explosive limit	1.8%
Vapour pressure	3.8 mmHg à 20 °C.
Vapour density	3.11.
Relative density	0.93g/cm ³
Solubility	99.999 g/L dans l'eau @ 25 °C.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	235°C
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Data not available
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Heat, flames and sparks.
Incompatible material	Oxydants. Copper.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Carbon oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

2-ETHOXYETHANOL

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	May cause eye irritation.
- Skin	Deadly in contact with skin
- Inhalation	Toxic if inhaled.
Acute toxicity (Ingestion)	Harmful if swallowed.
Chronic exposure effects / symptoms	narcosis, Liver injury may occur., Lesions kidneys can occur. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. Stomach - Irregularities - Based on the effect observed in humans
DL50 (specify species and route of entry)	LD50 Oral - Rat - 3 000 mg/kg LD50 Dermal - Rat - 3 900 mg/kg Oral-Rabbit LD50- 1 600 mg/kg LD50 Dermal - Rabbit - 3 300 mg/kg
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - 2 420 ppm

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: Static test LC50 - <i>Lepomis macrochirus</i> (Bluegill sunfish) > 10,000 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: EC50 - <i>Daphnia magna</i> (Water flea) - 7,670 mg/l - 48 h Toxicity to algae: Static test: NOEC - <i>Desmodesmus subspicatus</i> (green algae) - 1,000 mg/l - 72 h Toxicity to bacteria: > 10,000 mg/l - 24 h
Persistence and degradability	Biodegradability aerobic. >60% Readily biodegradable. Method: OECD Test Guideline 301C. Biochemical Oxygen Demand (BOD) 1,100 mg/g Chemical Oxygen Demand (COD) 1,890 mg/g Theoretical oxygen demand 1,950 mg/g
Bioaccumulative potential	Data not available.
Mobility in soil	Data not available.
Other adverse effects	Data not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

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

SECTION 14 - TRANSPORT INFORMATION

UN Number	1171
UN Proper shipping name	ÉTHER MONOMÉTHYLIQUE DE L'ÉTHYLÈNE GLYCOL
Transport hazard class(es)	3 Flammable liquids
Packing group	III
Limited quantity index	5L
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Flammable liquids category 3 Acute toxicity - Dermal category 1
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SECTION 16 - OTHER INFORMATION

Further information

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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