




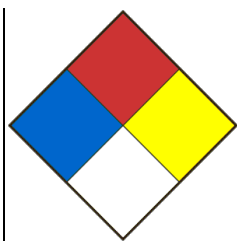
## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier 2-CHLOROETHANOL		Product Use Laboratory use	
Chemical formula CICH <sub>2</sub> CH <sub>2</sub> OH		Product code CP-0201	Molar weight 80,51
Chemical name / Commercial name / Synonymous MONOCHLORHYDRINE DU GLYCOL; Ethylene chlorohydrin; 2-Chloroethyl alcohol; 2-CHLORO-1-ETHANOL; 2-MONOCHLOROETHANOL; CHLOROETHANOL; ETHYLCHLOROHYDRIN; Alcool chloro-2 éthylique			
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 Lun-Ven 8h-16h	
Emergency phone	418-660-8666 Lun-Ven 8h-16h		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS 5/28/2024	SDS Prepared by Laboratoire MAT		E-Mail labmat@labmat.com

## SECTION 02 - HAZARDS IDENTIFICATION

<b>Classification WHIMS / GHS</b>	Flammable liquids category 3 Corrosive to metals-Category 1 Serious eye damage/eye irritation - Serious eye damage category 1 Acute toxicity - Oral category 2 Acute toxicity - Dermal category 1 Acute toxicity - Inhalation category 2
<b>Signal Word</b>	DANGER
<b>Hazards statements (H)</b>	H226 Flammable liquid and vapor. H290 May be corrosive to metals. H300 Fatal if swallowed. H310 Fatal in contact with skin. H318 Causes serious eye damage. H330 Fatal if inhaled.
<b>Precautionary statements (P)</b>	P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P233 Keep container tightly closed. P234 Keep only in original container. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P262 Do not get in eyes, on skin, or on clothing. P264 Wash the areas of the body that have been in contact with the product after handling. P270 Do no eat, drink or smoke when using this product. P280 Wear protective gloves, protective clothing and eye and face protection. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P321 Specific treatment (see section 4 of the SDS and on this label). P330 Rinse mouth. P361 + P364 Take off immediately all contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use for extinction. P390 Absorb spillage to prevent material damage. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P406 Store in a corrosion resistant container / or a container with corrosion resistant liner. P501 Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company. P260 Do not breathe dust / fume / gas / mist / vapors / spray. P271 Use only outdoors or in a well-ventilated area. P284 Wear respiratory protection. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P320 Specific treatment is urgent (see section 4 on this SDS on this label). P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
<b>PICTOGRAMS</b>	
<b>Other dangers</b>	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)



**Health** 3  
**Fire** 2  
**Reactivity** 1  
**Special danger**

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%P/P)
2-Chloroéthanol	107-07-3	<=100

## SECTION 04 - FIRST AID MEASURES

<b>Eye contact</b>	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.
<b>Skin contact</b>	If irritation persists, seek medical attention.
<b>Inhalation</b>	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. If the victim is not breathing, give artificial respiration. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Ingestion</b>	If the person is conscious, drink water and induce vomiting. Get immediate medical help. Never give anything by mouth to an unconscious person.
<b>Most important symptoms and effects (acute and delayed)</b>	Main symptoms of high exposure: Nausea and vomiting. Headaches. Vertigo. Incoordination. Convulsions. Weakness. Breathing difficulties. Lungs damage. Kidney damage. Liver damage. Ref. section 11.
<b>Immediate medical attention and special treatment, if necessary</b>	In case of medical consultation, keep this sheet available. In case of poisoning, the following can be administered as an antidote: Activated carbon (20 - 40@g in 10@% suspension).
<b>General advice</b>	Show this safety data sheet to the doctor in attendance.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Flammability</b>	Yes
<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Data not available.
<b>Hazardous combustion products</b>	Hazardous combustion products formed under fire conditions: Carbon oxides. Hydrogen chloride gas.
<b>Specific hazards of the dangerous product</b>	Be careful with vapors that accumulate to form explosive concentrations. Vapors can accumulate in areas bass.
<b>Special protective equipment and precautions for firefighters</b>	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

<b>Methods and materials for containment and cleaning up / Personnel precautions, protective equipment</b>	Evacuate personnel to safe areas. Cut off all sources of ignition. Avoid the accumulation of charges electrostatic. Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Use breathing apparatus if necessary. Avoid breathing vapors, mist or gas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Do not let product enter drains.
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## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

Components	CAS-No.	Control parameters	Value	Base
2-Chloroethanol	107-07-3	C	1 ppm 3.3mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	The substance can be easily absorbed through intact skin			
		C	1 ppm 3.3mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	Skin (percutaneous)			
		C	1 ppm	Canada. British Columbia OEL
	Contributes significantly to overall exposure via the dermal route.			

<b>Data source</b>	Sigma-Aldrich.
<b>Ventilation</b>	Use fan.
<b>Respiratory</b>	If permitted levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.
<b>Gloves</b>	Handle with gloves.
<b>Eyes</b>	Safety goggles with safety shutters.
<b>Shoes</b>	Safety shoes.
<b>Clothing</b>	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Engineering control</b>	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	Liquide visqueux incolore.
Odour	Odeur étherée.
Odour threshold	Data not available
pH	Sans objet.
Melting point / Freezing point	-89°C
Initial boiling point	129°C
Boiling range	Data not available
Flash point	60°C
Evaporation rate	Data not available
Flammability	Yes
Lower flammable / Explosive limit	16% v/v
Upper flammable / Explosive limit	5% v/v
Vapour pressure	7 hPa à 20 °C.
Vapour density	2.78 - (Air = 1.0)-
Relative density	1.201g/ml à 25°C
Solubility	Soluble dans l'eau.
Partition coefficient water/n-octanol	log Pow: 1.06 à 20 °C-
Auto-ignition temperature	425°C
Decomposition temperature	Data not available
Viscosity	Data not available

## SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances. Flammable product, may ignite with source of ignition, if temperature above flash point.
Chemical stability	Stable under recommended storage conditions. Sensitive to heat.
Possibility of hazardous reactions	May react violently with incompatible substances. Keep away from open flames, hot surfaces and sources of ignition. Vapors may form explosive mixtures with air when heated.
Conditions to avoid, including static discharge, shock or vibration	Heat, flames and sparks. Avoid the accumulation of static electricity.
Incompatible materials	Strong oxidizers. Bases, amines. Amides. Chlorosulfonic acid. Alkali metals. Alkaline earth. Violent reactions in contact with the following products: Ethylenediamine.
Hazardous decomposition products	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ) Hydrogen chloride gas.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 2-CHLOROETHANOL

Routes of exposure	Ingestion, inhalation, skin contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Causes serious eye irritation. Can cause corneal damage.
- Skin	Provoke a skin irritation.
- Inhalation	May be harmful if inhaled. Causes irritation of the respiratory system. In case of serious poisoning: Vertigo. Nausea and vomiting. Headache. Breathing difficulties. Incoordination, confusion, weakness, visual disturbances, irregular pulse, hypotension, collapse, loss of consciousness, respiratory failure, lung, liver, and kidney damage (edema, hemorrhage), hematuria, albuminuria, and possible death.
Acute toxicity (Ingestion)	To our knowledge, the product has not been fully studied.
Chronic exposure effects / symptoms	Ingestion: vomiting; inhalation: lung irritation, growth retardation, liver damage (necrosis). Target organs: Liver, kidney. Central nervous system.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 77mg/kg. LD50 Dermal - Rat - 84mg/kg. LD50 Dermal - Rabbit - 67 mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - 290mg/m <sup>3</sup> .

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Toxicity to fish: Flow-through test - LC50 - <i>Gambusia affinis</i> (Mosquito fish) - 15.3 mg/L - 96h.
<b>Persistence and degradability</b>	Data not available.
<b>Bioaccumulative potential</b>	Data not available.
<b>Mobility in soil</b>	Probable mobility in the environment due to its solubility in water.
<b>Other adverse effects</b>	All littering must be avoided in the environment.

## SECTION 13 - DISPOSAL CONSIDERATIONS

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

## SECTION 14 - TRANSPORT INFORMATION

<b>UN Number</b>	1135
<b>UN Proper shipping name</b>	MONOCHLORHYDRINE DU GLYCOL
<b>Transport hazard class(es)</b>	6.1 Toxic substances 3 Flammable liquids
<b>Packing group</b>	1
<b>Limited quantity index</b>	0kg
<b>ERAP Index</b>	1000
<b>Special precautions</b>	23

## SECTION 15 - REGULATORY INFORMATION

<b>WHIMS CANADA</b>	Flammable liquids category 3 Corrosive to metals-Category 1 Serious eye damage/eye irritation - Serious eye damage category 1 Acute toxicity - Oral category 2 Acute toxicity - Dermal category 1 Acute toxicity - Inhalation category 2
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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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