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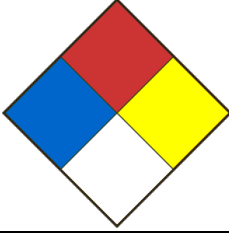
SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier 1,2-DICHLOROÉTHANE		Product Use Laboratory use	
Chemical formula C ₂ H ₄ Cl ₂		Product code DR-0925 ; DR-0113; DH-0101	Molar weight 98,96
Chemical name / Commercial name / Synonymous ETHYLENE DICHLORIDE, ETHYLENE CHLORIDE, DICHLORURE D'ÉTHYLÈNE, EDC, ETHANE DICHLORIDE, GLYCOL DICHLORIDE			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
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Emergency phone	CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS 8/3/2020	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	<p>Flammable liquids category 2</p> <p>Skin corrosion/irritation - Skin irritation category 2</p> <p>Carcinogenicity category 1B</p> <p>Acute toxicity - Oral category 4</p> <p>Acute toxicity - Inhalation category 3</p> <p>Specific target organ toxicity - Single exposure category 3</p> <p>Serious eye damage/eye irritation - Eye irritation category 2</p>
Signal Word	<p>DANGER</p>
Hazards statements (H)	<p>H225 Highly flammable liquid and vapour.</p> <p>H302 Harmful if swallowed.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H331 Toxic if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H350 May cause cancer.</p>
Precautionary statements (P)	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</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>P261 Avoid breathing dust / fume / gas / mist / vapours / spray.</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>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</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>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308 + P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P311 Call a POISON CENTER or doctor/physician.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P330 Rinse mouth.</p> <p>P332 + P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362 + P364 Take off 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 + P233 Store in a well-ventilated place. Keep container tightly closed.</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)
	Health 2 Fire 4 Reactivity 0 Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
1.2-Dichloroéthane	107-06-2	<=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	Wash skin with plenty of water for at least 15 minutes. Remove soiled 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	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, dry chemical or carbon dioxide.
Unsuitable extinguishing media	The water could be ineffective. Do not use a heavy water stream.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas.
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10). Containers exposed to fire may explode. Vapors may form explosive mixtures with air. Vapors may rise to the source of ignition and flash back. Sensitivity to a static discharge.
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 / Personnel precautions, protective equipment	Evacuate personnel to safe areas. Remove 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 vapours, mist or gas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not let product enter drains. 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. Store in cool place. Keep container tightly closed and store away from incompatible products, heat, sparks, and open flame. Keep away from heat and sources of ignition. Protect from sunlight and light.
Methods of handling	Avoid contact with the skin, eyes and clothes. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Avoid ingestion and inhalation. Use a hood preferably. 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

Components	CAS-No.	Control	Value	Basis
1,2-DICHLOROETHANE	107-06-2	TWA	10.000000 ppm 40.000000 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	1.000000 ppm	Canada. British Columbia OEL
Remarks		IARC "2B" applies to substances that are considered to be possibly carcinogenic in humans.		
		STEL	2.000000 ppm	Canada. British Columbia OEL
		IARC "2B" applies to substances that are considered to be possibly carcinogenic in humans.		
		VEMP	1.000000 ppm 4.000000 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		VECD	2.000000 ppm 8.000000 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		A substance whose exposure must be minimized in accordance with Article 42. A suspected carcinogenic effect in humans		

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	De solvant.
Odour threshold	3.00ppm
pH	Données non disponibles.
Melting point / Freezing point	-35°C
Initial boiling point	83°C
Boiling range	Data not available
Flash point	13°C
Evaporation rate	4.1%
Flammability	Yes
Lower flammable / Explosive limit	6.0%
Upper flammable / Explosive limit	15.9%
Vapour pressure	87 hPa à 20 °C.
Vapour density	3.41 (air = 1)-
Relative density	1.256g/cm ³
Solubility	Miscible avec l'alcool et l'éther.
Partition coefficient water/n-octanol	log Pow: 1.45-
Auto-ignition temperature	440°C
Decomposition temperature	300°C
Viscosity	0.8 mPa s à 20 °C.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Stable under normal conditions. Vapours may form explosive mixture with air.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Heat, flames and sparks. Operates slowly if exposed to air, ultraviolet light or moisture, forming phosgene and hydrogen chloride.
Incompatible material	Strong oxidizing agents. Bases. Alkali metals. There is danger of fire or explosion with strong alkalis, nitric acid, ammonia, dimethylaminopropylamine, nitrogen tetroxide, active metals such as sodium, potassium, aluminum powder and magnesium powder. Violent reactions on contact with strong alkalis, hydrazoic acid, nitric acid, ammonia, nitrogen tetroxide, dimethylaminopropylamine and active metals (aluminum, magnesium, potassium, sodium).
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Carbon oxides. Hydrogen chloride gas.

SECTION 11 - TOXICOLOGICAL INFORMATION

1,2-DICHLOROÉTHANE

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and tearing.
- Skin	Irritation and dermatitis.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Acts as a simple asphyxiant by air movement, anesthetic effects, disorders respiratory, migraine, dizziness.
Acute toxicity (Ingestion)	Gastrointestinal disturbance, Central nervous system depression, paresthesia, drowsiness, Convulsions, conjunctivitis, Pulmonary edema.
Chronic exposure effects / symptoms	Is recognized as a possible carcinogen for humans (class 2B) by IARC. Irregular breathing, Gastric / intestinal disorders, Nausea, Vomiting, increase in liver enzymes, Weakness. May cause central nervous system depression: Symptoms may include chest tightness, redness, headaches, nausea, vomiting, respiratory depression, weakness, rhythm irregular heartbeat, abdominal pain, seizures and shock. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
LD50 (specify species and route of entry)	LD50 Oral - Rat - Male. 770 mg/kg. LD50 Dermal - Rabbit - Male. 4890 mg/kg.
CL50 (specify species and route of entry)	CL50 inhalation - Rat 7.8 mg/L - 4 h.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	LC50 - Pimephales promelas (fathead minnow) - Flow-through test - 136 mg/L - 96h. LC50 - Oncorhynchus mykiss (rainbow trout) - Static test: 225 mg/L - 96 h. EC50 - Daphnia magna (Water flea) - 155 mg/L - 48 h. CE50- activated sludge Static test: 35500 mg/L - 3h. EC50 - Desmodesmus subspicatus (green algae) - Static test: 166 mg/L - 96 h. EC50 - Pseudokirchneriella subcapitata (green algae) - > 433 mg/L - 96 h.
Persistence and degradability	Biodegradability Result: - Not readily biodegradable Notes: (External Material Safety Data Sheet)
Bioaccumulative potential	Bioaccumulation - 21 days (Ethylene dichloride) Bioconcentration factor (BCF): 2 (OECD Guideline 305C).
Mobility in soil	Probable mobility in the environment due to its volatility.
Other adverse effects	Do not throw residues in the sewer.

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	1184
UN Proper shipping name	DICHLORURE D'ÉTHYLÈNE
Transport hazard class(es)	3 Flammable liquids 6.1 Toxic substances
Packing group	II
Limited quantity index	1L
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Flammable liquids category 2 Skin corrosion/irritation - Skin irritation category 2 Carcinogenicity category 1B Acute toxicity - Oral category 4 Acute toxicity - Inhalation category 3 Specific target organ toxicity - Single exposure category 3 Serious eye damage/eye irritation - Eye irritation 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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