



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

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


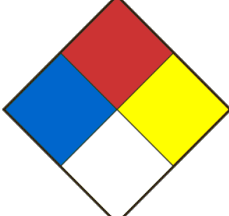
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SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier METHYLENE CHLORIDE		Product Use Laboratory use	
Chemical formula CH ₂ Cl ₂		Product code CR-0099 ; CH-0108; CP-0166	Molar weight 84,93
Chemical name / Commercial name / Synonymous DICHLOROMÉTHANE, METHYLENE CHLORIDE, DCM			
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 11/13/2018	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	<p>Skin corrosion/irritation - Skin irritation category 2</p> <p>Serious eye damage/eye irritation - Eye irritation category 1A</p> <p>Carcinogenicity category 2</p> <p>Specific Target Organ Toxicity - Repeated exposure category 2</p> <p>Specific target organ toxicity - Single exposure category 3</p>
Signal Word	<p>WARNING</p>
Hazards statements (H)	<p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H351 Suspected of causing cancer.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</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>P260 Do not breathe dust / fume / gas / mist / vapours / spray.</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>P271 Use only outdoors or in a well-ventilated area.</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>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>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</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>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</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	<p>NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)</p>
	<p>Health 2</p> <p>Fire 1</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 (%)
Chlorure de méthylène	75-09-2	<=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	If irritation persists, seek medical attention.
Inhalation	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.
Ingestion	If the person is conscious, drink water and do not induce vomiting. Get immediate medical help. Never give anything by mouth to an unconscious person. Rinse mouth with water.
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	No
Ignition conditions	Vapors may ignite in the air if their concentration is between 12 and 23%.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions. Carbon oxides. Hydrogen chloride gas. Phosgene (carbonyl dichloride)
Special fire and explosion hazards	The presence of oxygen in the air increases the rate of flammability. Reacts violently with lithium, potassium, potassium hydroxide, potassium tert-butoxide and sodium.
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 / Personal precautions, protective equipment	Evacuate personnel to safe areas. Cut off all sources of ignition. 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.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products. Protect from the sun's rays. Keep container tightly closed in a dry and well-ventilated place. Heat sensitive.
Methods of handling	This product hydrolyzes very slowly with water and generates hydrochloric acid and carbon oxychloride (carbonyl dichloride), which can corrode some metal containers (aluminum, iron). Bottle in the glass only. Always open containers slowly to allow any excess pressure to vent. Avoid inhalation of vapour or mist.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Composants	No.-CAS	Valeur	Paramètres de contrôle	Base
Methylene chloride	75-09-2	TWA	25 ppm	Canada. LEP Colombie Britannique
Remarques	L'IARC « 2B » s'applique aux substances qui sont considérées comme étant possiblement carcinogéniques chez les humains.			
		TWA	25.000000 ppm	Canada. LEP Colombie Britannique
	L'IARC « 2B » s'applique aux substances qui sont considérées comme étant possiblement carcinogéniques chez les humains.			
		TWAEV	50.000000 ppm 175.000000 mg/m3	Canada. Ontario OELs
		TWA	50 ppm 174 mg/m3	Canada. Alberta, Code de santé et de sécurité au travail (tableau 2 : VLE)
		TWA	50.000000 ppm 174.000000 mg/m3	Canada. Alberta, Code de santé et de sécurité au travail (tableau 2 : VLE)
		VEMP	50.000000 ppm 174.000000 mg/m3	Québec. Règlement sur la santé et la sécurité du travail, Annexe 1 Partie 1: Valeurs d'exposition admissibles des contaminants de l'air
	Une substance dont l'exposition doit être réduite au minimum conformément à l'article 42. Un effet cancérigène soupçonné chez l'humain			
		VEMP	50 ppm 174 mg/m3	Québec. Règlement sur la santé et la sécurité du travail, Annexe 1 Partie 1: Valeurs d'exposition admissibles des contaminants de l'air
	Une substance dont l'exposition doit être réduite au minimum conformément à l'article 42. Un effet cancérigène soupçonné chez l'humain			

Data source	Sigma-Aldrich.
Ventilation	Use fan.
Respiratory	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.
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	Odeur de chloroforme.
Odour threshold	Data not available
pH	Donnée non disponible.
Melting point / Freezing point	-97°C
Initial boiling point	40°C
Boiling range	39.8 - 40°C
Flash point	Data not available
Evaporation rate	0.71-
Flammability	No
Lower flammable / Explosive limit	12% v/v
Upper flammable / Explosive limit	23% v/v
Vapour pressure	470.9 hPa (353.2 mmHg) à 20°C-
Vapour density	2.93 - (Air =1.0)-
Relative density	1.325g/cm ³
Solubility	Non dans l'eau. Miscible avec l'alcool, l'acétone, le chloroforme et l'éther.
Partition coefficient water/n-octanol	log Pow :1.25-
Auto-ignition temperature	556°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	Stable under normal conditions.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid excessive heat and water contamination. Heat, flames, sparks. Sun exposure.
Incompatible material	Strong acids, strong oxidants. Strong bases. Alkali metals, aluminum, amines, magnesium, vinyl compounds.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Toxic vapors of hydrogen chloride, carbon monoxide, dioxide and oxychloride.

SECTION 11 - TOXICOLOGICAL INFORMATION

METHYLENE CHLORIDE

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and may cause inflammation of the conjunctiva.
- Skin	Irritation and dermatitis.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Narcotic effects, chest pain, cough, dyspnea, headache, dizziness, drowsiness, nausea and vomiting, paresthesia, nystagmus, cardiac arrhythmias, carboxyhemoglobinemia and may lead to pulmonary edema.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Gastrointestinal disorders, liver and kidney damage, cramps, diarrhea, headache, dizziness, drowsiness, nausea and vomiting, paresthesia, nystagmus, cardiac arrhythmias, stupor, convulsions, carboxyhemoglobinemia, unconsciousness, coma and may result in death.
Chronic exposure effects / symptoms	Burning sensation, dermatitis, conjunctivitis, narcotic effects, liver and kidney damage, cough, dyspnoea, laryngitis, headache, dizziness, drowsiness, confusion, irritability, paresthesia, nystagmus, carboxyhemoglobinemia, insomnia, weight loss and loss of appetite, nausea and vomiting.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 2000 mg/kg LD50 Dermal - Rabbit - 2000 mg/kg
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 52 000 mg/m ³ 6 hres.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h NOEC - Cyprinodon variegatus (sheepshead minnow) - 130 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 1,682.00 mg/l - 48 h
Persistence and degradability	Method: OECD Test Guideline 301C. Biodegradability Result: - Not readily biodegradable.
Bioaccumulative potential	Does not bioaccumulate.
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	1593
UN Proper shipping name	DICHLOROMÉTHANE
Transport hazard class(es)	6.1 Toxic substances
Packing group	III
Limited quantity index	5L
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Skin corrosion/irritation - Skin irritation category 2 Serious eye damage/eye irritation - Eye irritation category 1A Carcinogenicity category 2 Specific Target Organ Toxicity - Repeated exposure category 2 Specific target organ toxicity - Single exposure category 3
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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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