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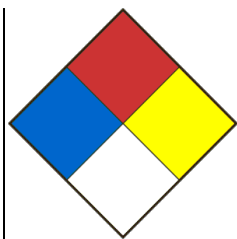
SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier 1,2-DICHLOROBENZENE		Product Use Laboratory use	
Chemical formula C ₆ H ₄ Cl ₂		Product code DR-0109	Molar weight 147
Chemical name / Commercial name / Synonymous 1,2-DICHLOROBENZENE, o-DICHLOROBENZENE, ORTHO-DICHLOROBENZENE, DICHLORO-1,2 BENZENE, ORTHODICHLOROBENZOL, CHLOROBEN, DILANTIN DB, DCB, ODB, CHLOROBEN, O-DICHLOR BENZOL			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
City Québec		Province Québec	
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Emergency phone	CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS 9/9/2022	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>Specific Target Organ Toxicity - Repeated exposure category 2</p> <p>Liquides inflammables category 4</p> <p>Acute toxicity - Oral category 4</p> <p>Acute toxicity - Inhalation category 4</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>WARNING</p>
Hazards statements (H)	<p>H227 Combustible liquid.</p> <p>H302 Harmful if swallowed.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p>
Precautionary statements (P)	<p>P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.</p> <p>P260 Do not breathe dust / fume / gas / mist / vapors / spray.</p> <p>P261 Avoid breathing dust / fume / gas / mist / vapors / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P270 Do no 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>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>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>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 Store in a well-ventilated place.</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>



Health 2
 Fire 2
 Reactivity 0
 Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
1,2-dichlorobenzène	95-50-1	<=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)	Main symptoms of high exposure: Dizziness. Nausea. Incoordination. Slurred speech. Skin irritation. Eyes irritation. Liver damage. Kidney damage. 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	Heat, sparks and open flame. It is not considered flammable, but can burn at high temperatures.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: - Carbon oxides, Hydrogen chloride gas. Chlorine gas.
Special fire and explosion hazards	Containers exposed to fire may explode. 1,2-Dichlorobenzene may react violently with aluminum, especially if contained in a container. Keep product and empty containers away from heat and sources of ignition. 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

Methods and materials for containment and cleaning up / Personal precautions, protective equipment	Evacuate personnel to safe areas. Recommended distance: at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. 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. Ensure adequate ventilation. Remove all sources of ignition. 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 07 - HANDLING AND STORAGE

Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Close all opened containers carefully and store vertically to avoid any flow. Protect from sunlight and light.
Methods of handling	Bottle in the glass only. NOTE: can attack certain types of plastics and rubbers. Avoid contact with the skin, eyes and clothes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	No.-CAS	Control parameters	Value	Basis
1,2-DICHLOROBENZENE	95-50-1	TWAEV	25.000000 ppm	Canada. Ontario OELs
		STEV	50.000000 ppm	Canada. Ontario OELs
		TWA	25 ppm 150 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	25.000000 ppm 150.000000 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	50 ppm 300 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	50.000000 ppm 300.000000 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	25.000000 ppm	Canada. British Columbia OEL
		STEL	50.000000 ppm	Canada. British Columbia OEL
		P	50.000000 ppm 301.000000 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		Remarks: A substance whose recirculation is prohibited in accordance with section 108.		
		P	50 ppm 301 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
A substance whose recirculation is prohibited in accordance with section 108.				

Data source	Sigma-Aldrich.
Ventilation	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	Use 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	Jaune clair.
Odour	Aromatique.
Odour threshold	0.3ppm
pH	Donnée non disponible..
Melting point / Freezing point	-17°C
Initial boiling point	178 -180°C
Boiling range	Data not available
Flash point	66°C
Evaporation rate	1.0%
Flammability	No
Lower flammable / Explosive limit	2.2%
Upper flammable / Explosive limit	9.2%
Vapour pressure	1.2 mmHg @ 20°C.
Vapour density	5.05 (Air = 1.0)-
Relative density	1.306g/cm ³
Solubility	Insoluble dans l'eau. Miscible avec l'alcool, le benzène et l'éther.
Partition coefficient water/n-octanol	log Pow : env. 3.433-
Auto-ignition temperature	648°C
Decomposition temperature	Data not available
Viscosity	1.324 mPa.s à 20°C.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May ignite on contact with oxidants. May react violently with incompatible substances.
Chemical stability	Stable under recommended storage conditions. Sensitive to light.
Possibility of hazardous reactions	May react violently with incompatible substances.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Heat, flames and sparks. Exposure to light.
Incompatible material	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates), magnesium, aluminum and its alloys, heat, moisture and light. Metals.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas. Gaseous chlorine.

SECTION 11 - TOXICOLOGICAL INFORMATION

1,2-DICHLOROBENZENE

Routes of exposure	Ingestion, inhalation, skin contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and may cause inflammation of the conjunctiva.
- Skin	Irritation. May cause an allergic reaction in the form of vesicles or hyperpigmentation of the skin.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Narcotic effects, liver and kidney damage, chest pain, cough, dyspnea, headache, dizziness, drowsiness, watery eyes, nausea and vomiting, hypotension, choking and may lead to unconsciousness.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Liver and kidney damage, gastrointestinal upset, cramps, diarrhea, headache, dizziness, drowsiness, tremors, seizures, salivation, nausea and vomiting.
Chronic exposure effects / symptoms	Group 3: unclassifiable agent for its carcinogenicity (Group 3 IARC). Burning sensation, conjunctivitis, skin allergy, narcotic effects, liver and kidney damage, chest pain, cough, dyspnea, laryngitis, headache, dizziness, tearing, confusion, irritability, anemia, muscle weakness, weight loss and loss of appetite, nausea and vomiting. Prolonged exposure to this product may result in high cholesterol (increased blood cholesterol). Possible skin sensitization.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 500 mg/Kg LD50 Dermal - Rabbit - > 10000 mg/kg
CL50 (specify species and route of entry)	CL50 inhalation - Rat 14.04 mg/L - 4 h.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	LC50 - Oncorhynchus mykiss (rainbow trout) - Flow-through test - 1.58 mg/L - 96 h. LC50 - Pimephales promelas (fathead minnow) - Static test: 42.6 - 80.4 mg/L - 96 h. CE50 - water flea - Static test: 0.66 mg/L - 48 h. EC50 - Pseudokirchneriella subcapitata (green algae) - Inhibition of growth - 2.2 mg/L - 96 h. EC50 - Daphnia magna (Water flea) - Static test: 0.74 mg/L - 48 h.
Persistence and degradability	Aerobic biodegradability Result: 0% - Not readily biodegradable. Method: OECD Test Guideline 301 C.
Bioaccumulative potential	Bioaccumulation Cyprinus carpio (Carp) - 56 d Bioconcentration factor (BCF): 90 - 260 Method: OECD Test Guideline 305C.
Mobility in soil	Probable mobility in the environment due to its solubility in water.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

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	1591
UN Proper shipping name	o-DICHLOROBENZÈNE
Transport hazard class(es)	6.1 Toxic substances
Packing group	III
Limited quantity index	5L
ERAP Index	-
Special precautions	43

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	<p>Skin corrosion/irritation - Skin irritation category 2</p> <p>Specific Target Organ Toxicity - Repeated exposure category 2</p> <p>Liquides inflammables category 4</p> <p>Acute toxicity - Oral category 4</p> <p>Acute toxicity - Inhalation category 4</p> <p>Specific target organ toxicity - Single exposure category 3</p> <p>Serious eye damage/eye irritation - Eye irritation category 2</p>
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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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