



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

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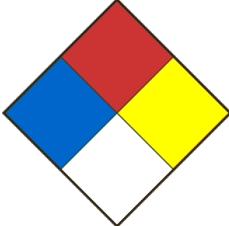
SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier XYLENE (ORTHO)		Product Use Laboratory use	
Chemical formula $C_6H_4(CH_3)_2$		Product code XP-0775; XH-0100	Molar weight 106,17
Chemical name / Commercial name / Synonymous o-XYLÈNE, 1,2-DIMÉTHYLBENZÈNE, o-DIMÉTHYLBENZÈNE, o-MÉTHYLTOLUÈNE, 1,2-XYLÈNE, o-XYLOL			
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 6/10/2021	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>Flammable liquids category 3</p> <p>Specific Target Organ Toxicity - Repeated exposure category 2</p> <p>Acute toxicity - Dermal 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> <p>Aspiration hazard category 1</p>
Signal Word	<p>DANGER</p>
Hazards statements (H)	<p>H226 Flammable liquid and vapor.</p> <p>H312 Harmful in contact with skin.</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> <p>H336 May cause drowsiness or dizziness.</p> <p>H304 May be fatal if swallowed and enters airways.</p>
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>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>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>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>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>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> <p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>P331 Do NOT induce vomiting.</p>

PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	Health 3 Fire 3 Reactivity 0 Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Ortho-xylène	95-47-6	<=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	If breathed in, move person into fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, give water to drink. Do NOT induce vomiting. 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: Skin irritation. Eyes irritation. Headaches. Dizziness. Cough. Abdominal pain. Nausea and vomiting. 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	Strong oxidizing agents, heat, sparks and open flame.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. The water spray will then be used to cool nearby containers.
Unsuitable extinguishing media	Do not use a heavy water stream.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: Carbon oxides. Aldehydes.
Special fire and explosion hazards	Vapors may form flammable or explosive mixtures with air. Containers may explode when heated. Vapors may form flammable or explosive mixtures with air. Liquid floating on the water can move to a source of ignition and spread a fire. Vapors may rise to the source of ignition and flash back. 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. Cut off all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. When handling, wear appropriate safety equipment. Use a respirator as needed. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains.
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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 strong oxidants, heat, sparks and open flame. Use venting and electrical equipment that is grounded and does not produce ignition sources (sparks). Protect from the sun's rays. Store in a well-ventilated area.
Methods of handling	Bottle in the glass only. NOTE: may attack some plastics. Always open containers slowly to allow any excess pressure to vent. Avoid inhalation of vapor 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

Components	CAS-No.	Value	Control parameters	Basis
o-Xylene	95-47-6	STEL	150.000000 ppm 651.000000 mg/m3	Canada, Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	100.000000 ppm 434.000000 mg/m3	Canada, Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWAEV	100.000000 ppm 434.000000 mg/m3	Québec, Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		STEV	150.000000 ppm 651.000000 mg/m3	Québec, Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	100.000000 ppm	Canada, British Columbia OEL
		STEL	150.000000 ppm	Canada, British Columbia OEL

Data source	Sigma-Aldrich (Millipore Sigma)
Ventilation	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. Face shield (20 cm minimum).
Shoes	Safety shoes.
Clothing	Labcoat. Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, 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	Liquide incolore.
Odour	Aromatique.
Odour threshold	5.4ppm
pH	Donnée non-disponible.
Melting point / Freezing point	-25 à -23°C
Initial boiling point	143-145°C
Boiling range	Data not available
Flash point	27-31°C
Evaporation rate	Data not available
Flammability	Yes
Lower flammable / Explosive limit	0.9% v/v
Upper flammable / Explosive limit	6.7% v/v
Vapour pressure	882 Pa @25°C.
Vapour density	3.7-
Relative density	0.87g/ml
Solubility	Insoluble dans l'eau (0.175g/L à 20°C). Miscible avec l'alcool et l'éther.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	465°C
Decomposition temperature	Data not available
Viscosity	

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Flammable product, may ignite with source of ignition, if temperature above flash point.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Highly flammable liquid and vapors. Vapors may form explosive mixture with air. Vapors may be ignited by electrostatic discharge. In the one of the water of the low water. Il est donc également susceptible de s'évaporer lors d'une fuite ou d'un déversement lorsque mélangé à l'eau. Liquid floating on the water can move to a source of ignition and spread a fire.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid excessive heat. Avoid the accumulation of static electricity. Avoid direct sunlight. Heat, flames and sparks.
Incompatible material	Ortho-xylene can react vigorously (up to ignition and explosion) with strong oxidizing agents, strong acids, 1,3-dichloro-5,5-dimethyl hydantoin and uranium fluoride. It can attack certain rubbers and plastics such as natural rubber, butyl rubber, nitrile rubber, neoprene rubber and polyvinyl chloride.
Hazardous decomposition products	Toxic vapors of carbon monoxide and dioxide. Aldehydes.

SECTION 11 - TOXICOLOGICAL INFORMATION

XYLENE (ORTHO)

Routes of exposure	Ingestion, inhalation, skin contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	May cause severe eye irritation.
- Skin	Causes skin irritation.
- Inhalation	Cough. Pulmonary edema May be fatal if it gets into the airways.
Acute toxicity (Ingestion)	Gastrointestinal disorders, headaches, cramps, diarrhea, nausea and vomiting. May be fatal if swallowed and enters airways.
Chronic exposure effects / symptoms	Overexposure can cause the following symptoms: Headache, fatigue, anxiety, a feeling of intoxication, irritability, dizziness, disturbances in balance, sleep and memory, trouble concentrating. Liver damage may occur., Kidney damage may occur., Blood disorders, Nausea, Vomiting. Target organs: Liver, kidney.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 3 000 mg/kg. LD50 Dermal - Rabbit - 14100 mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - 5 922 - 6 700 ppm.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: LC50 - <i>Lepomis macrochirus</i> - 16.1 mg/L - 96 h.
Persistence and degradability	Biodegradability aerobic - Duration of exposure 28 days - Result: 69%. Difficult to biodegrade.
Bioaccumulative potential	Data not available.
Mobility in soil	Is not likely mobile in soil due its low water solubility.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful 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	1307
UN Proper shipping name	XYLÈNES
Transport hazard class(es)	3 Flammable liquids
Packing group	III
Limited quantity index	5L
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Skin corrosion/irritation - Skin irritation category 2 Flammable liquids category 3 Specific Target Organ Toxicity - Repeated exposure category 2 Acute toxicity - Dermal category 4 Acute toxicity - Inhalation category 4 Specific target organ toxicity - Single exposure category 3 Serious eye damage/eye irritation - Eye irritation category 2 Aspiration hazard 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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