

Xylene 98%

SECTION 1: IDENTIFICATION

Product identifier used on a label: Xylene 98%
Product code: 2077
Recommended use of the chemical and restrictions on use: Solvent.
Chemical family: Aromatic hydrocarbons.
Name, address and phone # of supplier: Aqua Bond Inc.
440 Passmore ave.
Toronto, ON, M1V 5J8
(416) 754-7211
24 Hr. Emergency phone # CANUTEC (613) 996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification: FLAMMABLE LIQUIDS- CATEGORY 3
SKIN IRRITATION- CATEGORY 2
SERIOUS EYE DAMAGE/ SKIN IRRITATION- CATEGORY 2A
CARCINOGEN- CATEGORY 2
REPRODUCTIVE TOXICITY- CATEGORY 2
STOT-SE- CATEGORY 3 (narcotic effects)
STOT-RE- Category 3 (respiratory)
ASPIRATION TOXICITY- CATEGORY 1

Label elements:



Signal word: DANGER

Hazard statements: H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H320 Causes eye irritation.
H351 Suspected of causing cancer.
H361 Suspected of damaging the unborn child.
H336 May cause drowsiness or dizziness.
H335 May cause respiratory irritation.
H304 May be fatal if swallowed and enters airways.

Precautionary statements: P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, open flames and hot surfaces. - No smoking.
P233 Keep container tightly closed.

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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.
P261 Avoid breathing mist or vapours.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/clothing and eye/face protection.
P308+P313 IF exposed or concerned: Get medical attention/advice.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse.
P332+P313 If skin irritation occurs, get medical advice/attention.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.
P405 Store locked up.
P403 Store in a well-ventilated place.
P235 Keep cool.
P501 Dispose of contents/container in accordance with local regulation.

Other hazards: Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<i>Ingredient name</i>	<i>CAS Number</i>	<i>Concentration (%)</i>
Xylene	1330-20-7	98-100 %

SECTION 4: FIRST-AID MEASURES

Description of first aid measures:

Ingestion	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.

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Skin contact Immediately flush with plenty of water, while removing contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse

Eye contact For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention

Most important symptoms and effects, both acute and delayed:

Causes skin irritation. Redness, swelling, itching and dryness. May cause respiratory irritation. May cause coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May cause eye irritation. Symptoms may include stinging and tearing. Prolonged exposure can cause central nervous system effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm. Suspected of causing cancer.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically. Aspiration hazard. This product is a CNS depressant.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable Carbon dioxide (CO₂), Dry chemical, Alcohol resistant foam, Water fog.

Unsuitable Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance: Highly flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material. Empty containers may contain hazardous residues.

Hazardous thermal decomposition products:

Carbon dioxide, carbon monoxide and other unidentified organic compounds.

Special protective actions for fire-fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up:	Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Avoid breathing mist or vapours. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal. Contact the proper local authorities.
Special spill response procedures:	In case of transportation accident, contact CHEMTREC at 1-800-424-9300.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Put on appropriate personal protective equipment. Avoid exposure -obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage:	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be resealed and kept upright. Do not store in unlabeled containers.
Incompatible materials:	Acids, oxidizing agents, halogens and halogenated compounds. Metal salts.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Ingredient	Exposure limits
Sodium hydroxide	ACGIH TLV TWA 100 ppm STEL 150 ppm OSHA PEL 100 ppm (435 mg/m ³)

Engineering controls: Use with adequate ventilation to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures: Eyes/face: Chemical splash goggles and face shield.
 Skin: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory: Wear appropriate respirator when ventilation is inadequate. Be sure to use a NIOSH approved respirator or equivalent.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear colourless liquid.
Odor:	Hydrocarbon odour.
Odor threshold:	Not available.
pH:	Not applicable.
Melting point:	Not available.
Freezing point:	-42°C
Initial boiling point and boiling range:	139-142°C
Flash point:	26-29°C Cleveland closed cup
Evaporation rate:	2 (BuAe=1)
Flammability:	Flammable.
Upper and lower flammability limits:	Lower 1%, Upper 7%
Vapour pressure:	2.5 mmHg
Vapour density:	3.66
Relative density:	0.86 @ 20°C
Solubility:	Insoluble.
Partition coefficient n-octanol/water:	3.12-3.2 log Kow
Auto-ignition temperature:	464-500°C
Decomposition temperature:	Not available.
Viscosity:	0.33mPa.s @25°C

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not normally reactive.
Chemical stability:	Stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible substances. Do not use in areas without adequate ventilation.
Incompatible materials:	Acids, oxidizing agents, halogens and halogenated compounds. Metal salts.
Hazardous decomposition products:	Will not decompose under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure:	SKIN AND EYES: yes INHALATION: yes INGESTION: yes
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Potential health effects (acute): EYE: May cause eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.
 INHALATION: May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.
 SKIN: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
 INGESTION: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Delayed and immediate effects, chronic effects from short and long term exposure: Prolonged exposure can cause central nervous system effects.

Potential chronic health effects: Not available.

Carcinogenicity: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Suspected of causing cancer. Contains Ethylbenzene. Ethylbenzene is classified as carcinogenic by IARC (Group 2B) and ACGIH (Category A3).

Germ cell mutagenicity: No known significant effects or critical hazards.

Reproductive toxicity: Suspected of damaging the unborn child. Xylene may cause fetotoxic effects (e.g. reduced fetal weight, delayed ossification, behavioral effects) at doses which are not maternally toxic, based on animal data.

Sensitization: No known significant effects or critical hazards.

Toxicological effects:

Acute toxicity:

<i>Product</i>	<i>Result</i>	<i>Species</i>	<i>Dose</i>	<i>Exposure</i>
Xylene	LD50 dermal	Rabbit	12180 mg/kg	-
	LD50 oral	Rat	3253 mg/kg	-
	LC50 inhalation, vap	Rat	6350 ppm	4 hours

Specific target organ toxicity- single exposure:

<i>Product</i>	<i>Category</i>	<i>Target organ</i>
Xylene	3	May cause drowsiness or dizziness.

Aspiration hazard: Category 1

SECTION 12 ECOLOGICAL INFORMATION

Toxicity :

Name	Result	Species	Exposure
Xylene	LC50 8.2 mg/L	Rainbow trout	96 hours
	EC50 3.2-9.56 mg/L	Daphnia magna	48 hours

Persistence and degradability: Not readily biodegradable.

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Bioaccumulative potential: Not available.
Mobility in soil: BCF 0.6-15

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

UN Number: TDG
UN1307
UN proper shipping name: XYLENES
Transport hazard class: 3
Packing group: III
Environmental hazard: Yes.
Special precautions for user: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: REGULATORY INFORMATION

Canada inventory (DSL): Listed.

SECTION 16: OTHER INFORMATION

Revision date: August 14, 2017

Revision number: 1

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)



SAFETY DATA SHEET

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UN = United Nations

Disclaimer

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