


Safety Data Sheet

Section 1 Identification	
Product Identifier	Xylene
	Version: 5 Effective Date: 21 February, 2016
Other Means Of Identification	Xylol
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055
Recommended Use and Restrictions On Use	Industrial Solvent. No restrictions.
Product Family	Hydrocarbon
24 Hour Emergency	Canutec (613) 996-6666

Section 2. Hazard Identification	
Hazard Classification	
Physical Hazard	Flammable Liquids – Category 3
Health Hazard	Skin Corrosion/Irritation - Category 2 Eye Damage/Irritation - Category 2B Specific Target Organ Toxicity (Single Exposure) - Category 3 Specific Target Organ Toxicity, (Repeated Exposure) – Category 2 Aspiration Hazard – Category 1 Acute Oral Toxicity – Category 4 Reproductive Toxicity – Category 2 Carcinogenicity – Category 2
Signal Word	Warning
Hazard Statement	Flammable liquid and vapour. Causes skin irritation. Causes eye irritation. May cause respiratory irritation; or may cause drowsiness or dizziness. May cause damage to organs (respiratory tract, central nervous system eyes, skin, ears) through prolonged or repeated

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	<p>exposure (inhalation, ingestion). May be harmful if swallowed and enters airways. Harmful if swallowed. Suspected of damaging fertility or the unborn child (based on studies on laboratory animals) Suspected of causing cancer (no conclusive studies on humans)</p>
Precautionary Prevention Statement	<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves, clothing, eye and face protection. Wash hands thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours or spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.</p> <p>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.</p>
Precautionary Response Statement	<p>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse and wash skin with water or shower if on clothing. In case of fire: Use foam, carbon dioxide, dry chemical to extinguish. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell. Get medical attention if you feel unwell.</p> <p>IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting. Rinse mouth.</p> <p>Specific Treatment: do not induce vomiting unless directed by medical personnel. If exposed get medical attention.</p>
Precautionary Storage Statement	<p>Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.</p>
Precautionary Disposal Statement	<p>Dispose of contents/container in accordance to local regulations.</p>

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS No. and Other Unique Identifiers	% by weight
Xylene, (mixture of isomers)	Xylol	1330-20-7	60-100

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Section 4. First-Aid Measures	
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If skin is damaged seek immediate medical attention. If irritation persists seek medical attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
Most Important Symptoms and Effects Both Acute and Delayed	In case of eye contact: pain or irritation, watering, redness. If inhaled: respiratory tract irritation, coughing. If on skin: irritation, redness, dryness, cracking. If ingested: nausea or vomiting.
Immediate Medical Attention and Special Treatment	If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position

Section 5. Fire-Fighting Measures	
Suitable and Unsuitable Extinguishing Media	Foam, carbon dioxide, dry chemical. Do not use direct water jet.
Hazardous Combustion Products	Carbon monoxide
Specific Hazards Arising From the Product	Decomposition at elevated temperatures releases oxides of carbon.
Special Protective Equipment and Precautions For Fire-Fighters	Fire-fighters should wear self contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire. May ignite if static discharge. Can form explosive mixtures in water. Product will float on water and can travel to distant locations and /or spread fire.

Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Gloves (neoprene), goggles or face shield, coveralls (flameproof), footwear appropriate for worksite. Air purifying respirator (organic vapours / mists) if exposure limits are being exceeded. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material.

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	Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation.
Environmental Precautions	Do not allow to enter any surface water courses or drains and sewers. Product may collect in low places. Remove all sources of ignition and naked flames.
Methods and Materials for Containment and Clean-Up	With all sources of ignition removed and wearing correct protective apparel, close area and remove all personnel not required for clean up. Pump up large volumes of product, or soak up smaller amounts with an absorbent. Place collected material in a suitable container for disposal. Wash area down with soap and water to remove residues.

Section 7. Handling and Storage	
Precautions For Safe Handling	Handle with care. Flammable liquid. Containers should be grounded to prevent static discharge.
Conditions For Safe Storage	Store in a cool dry place away from any sources of ignition.

Section 8. Exposure Controls / Personal Protection				
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH*
Xylene	100 ppm OSHA	150 ppm OSHA		900 ppm
* Immediately Dangerous to Life and Health				
Exposure Controls	Local exhaust ventilation to maintain exposure levels below legal limits.			
Appropriate Engineering Controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.			
Individual Protective Measures				
Eye / Face Protection	Goggles			
Skin Protection	Chemical resistant gloves, coveralls			
Respiratory Protection	Air purifying respirator fitted with cartridges (organic vapours / mists) must worn if exposure limits are being exceeded.			

Section 9. Physical and Chemical Properties	
Appearance	Clear, colourless liquid
Odour	Hydrocarbon odour
Odour Threshold	Not available.
pH	Not applicable
Flash Point	25 °C
Boiling Point and Boiling Range	138 - 142 °C
Melting Point and Freezing Point	-35 °C
Evaporation Rate	0.76 (ASTM D 3539)
Flammability (solid, gas)	Not applicable
Upper and Lower Flammability or Explosive Limits	1% to 7%
Vapour Pressure	1 kPa @ 20 °C
Vapour Density	3.7 (air =1)
Relative Density	0.872
Solubility	0.175 kg / m ³
Partition co-efficient, n-Octanol/Water	No data
Auto Ignition Temperature	500 °C
Decomposition Temperature	No data
Viscosity	No data

Section 10. Stability and Reactivity	
Reactivity	Forms explosive mixtures with nitric acid
Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur
Conditions to Avoid	Open flames and sources of ignition
Incompatible Materials	Strong acids. Strong oxidising agents. Xylene will attack some plastics, rubber and coatings.
Hazardous Decomposition Products	Not expected to decompose under normal conditions of use.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Xylene	3.523 g/kg (Rat)	>21.3 g/kg (Rat)	5000 ppm (Rat), 4h

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Likely Routes of Exposure	
Skin:	May cause irritation. Symptoms include burning, redness, swelling and blisters. May be absorbed through the skin.
Eyes:	May cause irritation. Symptoms may include – burning, redness, swelling, tearing and blurred vision.
Inhalation:	Causes depression of the central nervous system – causing headache, dizziness, nausea and vomiting. High concentrations may cause inco-ordination, dizziness, loss of consciousness, respiratory failure and death. Reversible liver and kidney damage has been reported. Neurobehavioural effects such as impaired short term memory and reaction time and alterations in body balance have been observed.
Ingestion:	Slightly toxic. Ingestion of large amounts of xylene can cause CNS effects such as dizziness, nausea and vomiting. Aspiration into the lungs may occur during ingestion or vomiting. Lung injury may occur, symptoms include – coughing, choking, shortness of breath, bluish discolouration to the skin, rapid breathing or heart rate. Chemical pneumonitis from aspiration may result in fever. Pulmonary oedema or bleeding, drowsiness, confusion, coma and seizures may occur in more serious cases.
Acute Toxicity Estimates (ATE)	Acute Toxicity (Oral LD50): mg/kg (oral rat) > 2000 Acute Toxicity (Inhalation LC50): mg/l (vapours) (4h) > 20 Acute Toxicity (Dermal LD50): mg/kg Rabbit > 2000
STOT (Specific Target Organ Toxicity) – Single Exposure	Respiratory system, central nervous system, eye, skin
Aspiration Toxicity	May cause lung injury
STOT (Specific Target Organ Toxicity) – Repeated Exposure	Xylene may damage hearing or enhance sensitivity to noise in chronic occupational exposures, probably from a neurotoxic mechanism.
Skin Corrosion / Irritation	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Serious Eye / Irritation	Causes eye irritation.
Respiratory or Skin Sensitization	Not classified
Carcinogenicity	IARC – Group 3, ACGIH – A4 not classified as human carcinogen. This product contains ethylbenzene, IARC has evaluated ethylbenzene and classified it a sa possible human carcinogen (Group 2B).
Reproductive Toxicity	



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- Sexual Function and Fertility	an increase in menstrual disorders has been reported in women exposed to organic solvents such as benzene, toluene, and xylenes. It is not possible to attribute these effects to xylene in particular.
- Development of Offspring	Ethylbenzene: Studies in laboratory animals indicate limited evidence of renal malformations, resorptions, and developmental delays following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time.
- Effects on or via Lactation	Not classified
Germ Cell Mutagenicity	Xylene does not appear to be a mutagen.
Interactive Effects	None known
Other Information	None known

Section 12. Ecological Information

Ecotoxicity	LC50 13.4 mg/L (Pimephales promelas) 96 hr flow through.
Persistence and Degradability	No data
Bioaccumulative Potential	Not available
Biodegradability	Readily biodegradable. Oxidises by photo-chemical reactions in air.
Mobility in Soil	Highly mobile in soil, may contaminate ground water, will float on water. Due to high evaporation rate this product is unlikely to cause a significant hazard to aquatic life.
Other Adverse Effects	Environmental Fate: (Atmosphere): According to a model of gas/particulate partitioning of semi volatile organic compounds in the atmosphere, xylene, which has an experimental vapor pressure of 7.99 mm Hg at 25° C, will exist solely as a vapor in the ambient atmosphere by reaction with photochemically-produced hydroxyl radicals. The atmospheric lifetime of xylene is about 14-26 hours. Ambient levels of xylene are detected in the atmosphere due to large emissions of this compound. Soil: In soil, it will volatilize and leach into groundwater. Little bioconcentration is expected.

Section 13. Disposal Considerations

Disposal Considerations	Dispose of contents / container in accordance with local regulations.
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Section 14. Transport Information

UN Number	1307
UN Proper Shipping Name	Xylene

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Transport Hazard Class(es)	3
Packaging Group	III
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	130

Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None

Section 16. Other Information	
NFPA Rating	Health-2/ Flammability-2/Reactivity-0/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-2/Reactivity-0/Personal Protection-See Section 8.
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