


# Safety Data Sheet

Section 1 Identification	
<b>Product Identifier</b>	<b>Xylene</b>
	<b>Version: 5</b> <b>Effective Date: 12 July, 2017</b>
<b>Other Means Of Identification</b>	Xylol
<b>Initial Supplier Identifier</b>	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055
<b>Recommended Use and Restrictions On Use</b>	Industrial Solvent. No restrictions.
<b>Product Family</b>	Hydrocarbon
<b>24 Hour Emergency</b>	Canutec (613) 996-6666

Section 2. Hazard Identification	
<b>Hazard Classification</b>	
<b>Physical Hazard</b>	Flammable Liquids – Category 3
<b>Health Hazard</b>	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
<b>Signal Word</b>	Warning
<b>Hazard Statement</b>	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. Suspected of damaging fertility or the unborn child (based on studies on laboratory animals). Suspected of causing cancer (no conclusive studies on humans)</p>
<b>Precautionary Prevention Statement</b>	<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, and eye &amp; face protection. Wash hands thoroughly after handling. Do not inhale 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>
<b>Precautionary Response Statement</b>	<p>IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse and wash skin with water or shower if on clothing. In case of fire, use foam, carbon dioxide, or dry chemical to extinguish.</p> <p>If skin irritation occurs: Seek medical attention. Remove 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, seek medical attention.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.</p> <p>Seek 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, seek medical attention.</p>
<b>Precautionary Storage Statement</b>	<p>Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.</p>
<b>Precautionary Disposal Statement</b>	<p>Dispose of contents/container in accordance to local regulations.</p>

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

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Section 4. First-Aid Measures	
<b>Eye Contact</b>	Flush eyes with water for 15 minutes. Seek medical attention.
<b>Skin Contact</b>	Flush area with water. If skin is damaged, seek immediate medical attention. If irritation persists seek medical attention. Launder clothing before reuse.
<b>Inhalation</b>	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
<b>Ingestion</b>	Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
<b>Most Important Symptoms and Effects Both Acute and Delayed</b>	If in contact with eyes, symptoms may include: pain or irritation, watering, redness. If inhaled, symptoms may include: respiratory tract irritation, coughing. If in contact with skin, symptoms may include: irritation, redness, dryness, cracking. If ingested, symptoms may include: nausea or vomiting.
<b>Immediate Medical Attention and Special Treatment</b>	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	
<b>Suitable and Unsuitable Extinguishing Media</b>	Foam, carbon dioxide, dry chemical. Do not use direct water jet.
<b>Hazardous Combustion Products</b>	Carbon monoxide
<b>Specific Hazards Arising From the Product</b>	Decomposition at elevated temperatures releases oxides of carbon.
<b>Special Protective Equipment and Precautions For Fire-Fighters</b>	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	
<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Gloves (neoprene), goggles or face shield, coveralls (flameproof), footwear appropriate for worksite. Air purifying respirator (organic vapour/mist) if exposure limits are being exceeded.

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	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation.
<b>Environmental Precautions</b>	Do not allow product to enter any surface water courses or drains and sewers. Product may collect in low places. Remove all sources of ignition and naked flames.
<b>Methods and Materials for Containment and Clean-Up</b>	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.

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

<b>Section 8. Exposure Controls / Personal Protection</b>				
<b>Control Parameters</b>	<b>TWA: 8 Hr</b>	<b>STEL: 15 min</b>	<b>Ceiling</b>	<b>IDLH*</b>
<b>Xylene</b>	100 ppm OSHA	150 ppm OSHA		900 ppm
* Immediately Dangerous to Life and Health				
<b>Exposure Controls</b>	Local exhaust ventilation to maintain exposure levels below legal limits.			
<b>Appropriate Engineering Controls</b>	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.			
<b>Individual Protective Measures</b>				
<b>Eye / Face Protection</b>	Goggles			
<b>Skin Protection</b>	Chemical resistant gloves, coveralls			
<b>Respiratory Protection</b>	Air purifying respirator fitted with cartridges (organic vapours/mists) must worn if exposure limits are being exceeded.			

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

Section 10. Stability and Reactivity	
<b>Reactivity</b>	Forms explosive mixtures with nitric acid
<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Will not occur
<b>Conditions to Avoid</b>	Open flames and sources of ignition
<b>Incompatible Materials</b>	Strong acids and strong oxidizing agents. Xylene will attack some plastics, rubber and coatings.
<b>Hazardous Decomposition Products</b>	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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<b>Likely Routes of Exposure</b>	
<b>Skin:</b>	May cause irritation. Symptoms include burning, redness, swelling and blisters. May be absorbed through the skin.
<b>Eyes:</b>	May cause irritation. Symptoms may include: Burning, redness, swelling, tearing and blurred vision.
<b>Inhalation:</b>	Causes depression of the central nervous system, causing headache, dizziness, nausea and vomiting. High concentrations may cause incoordination, dizziness, loss of consciousness, respiratory failure and death. Reversible liver and kidney damage has been reported. Neurobehavioral effects such as impaired short term memory and reaction time and alterations in body balance have been observed.
<b>Ingestion:</b>	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 discoloration 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.
<b>Acute Toxicity Estimates (ATE)</b>	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
<b>STOT (Specific Target Organ Toxicity) – Single Exposure</b>	Respiratory system, central nervous system, eye, skin
<b>Aspiration Toxicity</b>	May cause lung injury
<b>STOT (Specific Target Organ Toxicity) – Repeated Exposure</b>	Xylene may damage hearing or enhance sensitivity to noise in chronic occupational exposures, probably from a neurotoxic mechanism.
<b>Skin Corrosion / Irritation</b>	Prolonged or repeated contact can cause defatting of the skin and lead to irritation, cracking and/or dermatitis.
<b>Serious Eye / Irritation</b>	Causes eye irritation.
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Carcinogenicity</b>	IARC – Group 3, ACGIH – A4 not classified as human carcinogen. This product contains ethylbenzene, IARC has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B).
<b>Reproductive Toxicity</b> - <b>Sexual Function and Fertility</b>	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.





Manufacturer of Specialty Chemicals

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- <b>Development of Offspring</b>	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.
- <b>Effects on or via Lactation</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Xylene does not appear to be a mutagen.
<b>Interactive Effects</b>	None known
<b>Other Information</b>	None known

### Section 12. Ecological Information

<b>Ecotoxicity</b>	LC50 13.4 mg/L (Pimephales promelas) 96 hr flow through.
<b>Persistence and Degradability</b>	No data
<b>Bioaccumulative Potential</b>	Not available
<b>Biodegradability</b>	Readily biodegradable. Oxidizes by photochemical reactions in air.
<b>Mobility in Soil</b>	Highly mobile in soil, may contaminate ground water, and will float on water. Due to high evaporation rate, this product is unlikely to cause a significant hazard to aquatic life.
<b>Other Adverse Effects</b>	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. Environmental Fate (Soil): In soil, it will volatilize and leach into groundwater. Little bioconcentration is expected.

### Section 13. Disposal Considerations

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

<b>UN Number</b>	1307
<b>UN Proper Shipping Name</b>	Xylene
<b>Transport Hazard Class(es)</b>	3

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<b>Packaging Group</b>	III
<b>Environmental Hazards</b>	Not applicable
<b>Bulk Transport</b>	Not applicable
<b>Special Precaution</b>	Not applicable
<b>DOT Erg#</b>	130

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

<b>Section 16. Other Information</b>	
<b>NFPA Rating</b>	Health-2/ Flammability-2/Reactivity-0/Special Hazard-Not applicable
<b>HMIS Rating</b>	Health-2/Flammability-2/Reactivity-0/Personal Protection-See Section 8.
<b>Prepared by:</b>	Chemfax Products Ltd., Technical Department
<b>Date Prepared:</b>	28 September, 2012
<b>Date of Latest Revision:</b>	12 July, 2017
<b>Disclaimer</b>	
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