

### Section 1 - Chemical Product and Company Identification

<b>Product Name</b>	Xylenes
<b>Synonyms</b>	Xylenes; Xylol; methyl toluene, benzene, dimethyl-; dimethylbenzene.
<b>Product Use</b>	Hydrocarbon solvent
<b>Restriction on Use</b>	None identified
<b>Manufacturer/Supplier</b>	CFR Chemicals 38451 Range Road 22 County of Red Deer T4E 2N6
<b>General Assistance</b>	1 (877) 269-3419
<b>Emergency Telephone</b>	<b>613-966-6666 (CANUTEC 24 Hour Phone Number)</b>
<b>Date of Preparation of SDS</b>	April 1, 2017

### Section 2 – Hazard Identification

**Signal Word** Danger

**GHS Pictogram(s)**



**Target Organs** Narcotic Effects

**Hazard Statement:**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315 + H320	Causes skin irritation and causes eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H401	Toxic to aquatic life.

**Precautionary Statement**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

P280	Wear protective gloves/eye protection/face protection.
<b>Response</b>	
P321	Specific Treatment: see response statements on the label
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE / DOCTOR.
P331	DO NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminate clothing. Rinse skin with water / shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	If exposed or concerned: get medical advice / attention.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.
<b>Storage</b>	
P403 + P233	Store in well-ventilated place. Keep contained tightly closed.
P403 + P235	Store in well-ventilated place. Keep cool.
P405	Store locked up.
<b>Disposal</b>	
P501	Dispose of contents/container to an approved waste disposal unit.
<b>GHS Classification</b>	Flammable liquids (Category 3) Acute toxicity, dermal (Category 4) Acute toxicity, inhalation (Category 4) Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2B) Carcinogenicity (Category 2) Specific target organ toxicity - single exposure (Category 3 respiratory tract irritation) Specific target organ toxicity - single exposure (Category 3 narcotic effects) Aspiration hazard (Category 1) Hazardous to the aquatic environment, acute hazard (Category 2)
<b>HMIS Classification</b>	
<b>Health Hazard</b>	<b>2</b>
<b>Chronic Health Hazard</b>	<b>*</b>
<b>Flammability</b>	<b>3</b>
<b>Physical Hazards</b>	<b>0</b>
<b>Potential Health Effects</b>	
<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin.
<b>Eye</b>	Causes eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

### Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Xylenes (o, m, p isomers)	Xylenes; Xylol; methyl toluene, benzene, dimethyl-; dimethylbenzene.	55 – 98%	1330-20-7
Ethylbenzene	Ethylbenzol; Phenylethane: alpha-Methyltoluene	2 – 35%	100-41-4
Chemical Formula	not applicable		

\* = Various \*\* = Mixture \*\*\* = Proprietary

### Section 4 - First Aid Measures

<b>Inhalation</b>	Move victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that vapour is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.
<b>Eye Contact</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Check for and remove contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
<b>Skin Contact</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	Get medical attention immediately. Call a poison control centre or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.
<b>Most Important Symptoms/Effects</b>	
Acute	No data available.
Delayed	No data available.
<b>Note to Physician</b>	Treat symptomatically.

### Section 5 – Fire-Fighting Measures

<b>Flash Point (°C)</b>	27 - 32°C
<b>Flash Point Method</b>	PMCC
<b>Auto Ignition Temperature</b>	463.3 - 528.9°C

<b>Conditions of Flammability</b>	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/ hot surface. No smoking.
<b>Extinguishing Media</b>	Use water spray (fog), alcohol-resistant foam, dry chemical or carbon dioxide
<b>Unsuitable Extinguishing Media</b>	Water streams.
<b>Unusual Fire/</b>	
<b>Explosion Hazard</b>	No data available.
<b>Hazardous Combustion</b>	
<b>Products</b>	Carbon oxides
<b>Special Protective Equipment and</b>	
<b>Precautions for Firefighters</b>	Wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

## Section 6 – Accidental Release Measures

<b>Personal precautions</b>	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<b>Methods and materials for containment and cleaning up</b>	Contain free liquid if possible. Pick up by covering with an activated carbon absorbent or other suitable inert absorbent material (e.g. sand, sawdust, general-purpose binder). Take up & place in closed containers. Ventilate area & wash spill site after material pickup is complete. Contain and dispose of wash water in accordance with local regulations.

## Section 7 – Handling and Storage

<b>Precautions for safe handling</b>	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.
<b>Conditions for safe storage</b>	Keep container tightly closed in a dry and well-ventilated place.
<b>Incompatible Conditions</b>	Heat, flames and sparks.
<b>Incompatible Materials</b>	Strong oxidizing agents. Reducing agents. Acids. Alkalis.

## Section 8 – Exposure Controls / Personal Protection

### Occupational Exposure Limits

#### Ingredient Name

Xylenes (o, m, p isomers)

Ethylbenzene

#### Exposure Limits

**Canada, Alberta, Occupational Health and Safety Code (table 2: OEL)**

TWA: 100ppm, 435 mg/m<sup>3</sup> 8 Hours

STEL: 150ppm, 651 mg/m<sup>3</sup> 15 minutes

#### ACGIH

TWA: 20ppm 8 Hours

STEL: 10000 ppm 15 minutes

**OSHA PEL**

TWA: 100 ppm

 TWA: 435 mg/m<sup>3</sup>
**Personal protective equipment**
**Eye/face protection**

Chemical safety glasses with side shields to prevent eye contact. As a general rule do not wear contact lenses when handling chemicals.

**Skin protection**

Wear chemical resistant gloves, impermeable protective clothing and safety shoes.

**Respiratory protection**

Use NIOSH approved respirators and components.

**General hygiene**
**Considerations**

Handle in accordance with good industrial hygiene and safety.

**Specific engineering controls**

Use mechanical exhaust or laboratory fumehood to avoid exposure. Safety shower, eye wash, and fire extinguisher should be present.

### Section 9 – Physical and Chemical Properties

<b>Physical State</b>	Liquid	<b>Water Solubility</b>	Insoluble
<b>Appearance &amp; Odour</b>	Clear, colourless aromatic odour.	<b>Boiling Point</b>	Not applicable.
<b>Vapour Pressure</b>	1 kPa @ 20.0°C	<b>Boiling Range</b>	136 – 145°C
<b>Odour Threshold</b>	Not available.	<b>Melting Point</b>	-48°C
<b>Evaporation Rate</b>	13.5	<b>Freezing Point</b>	-48°C
<b>Vapour Density</b>	3.7	<b>Lower Explosive Limit (LEL)</b>	1.0 %
<b>Specific Gravity</b>	0.87	<b>Upper Explosive Limit (UEL)</b>	7.1 %
<b>pH</b>	Not available.	<b>Partition coefficient (n-octanol/water)</b>	3.15
<b>Flammability (Solid, Gas)</b>	Not applicable.	<b>Viscosity</b>	Not available.
<b>Decomposition Temperature</b>	Not available.		

### Section 10 – Stability and Reactivity

<b>Reactivity</b>	Heating may cause fire.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No data available
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Materials to avoid</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Carbon oxides. Other decomposition products - No data available

### Section 11- Toxicological Information

#### Information on Likely Routes of Exposure

##### Inhalation:

In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

##### Skin contact

Prolonged or frequent contact may cause redness, itching, eczema and skin cracking. Defats the skin.

##### Eye contact

Causes eye irritation.

##### Eye contact

May irritate and cause redness and pain..

##### Ingestion

Ingestion of large amounts may cause unconsciousness. However, ingestion may cause nausea, headache, dizziness and intoxication. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhea. May cause irritation to the mouth and throat.

##### Acute and Chronic Toxicity

No data available

#### Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Xylenes	LC50 Inhalation gas	Rat	6350ppm	4 Hr
	LD50 Oral	Rat	3253mg/kg	-
	LD50 Dermal	Rabbit	12126mg/kg	24 Hr
Ethylbenzene	LD50 Oral	Rat	5.46g/kg	-
	LD50 Dermal	Rabbit	>5000mg/kg	-

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes eye irritation.

**Respiratory or skin sensitization** No data available

**Mutagenicity** Not assigned.

**Carcinogenicity** Suspected of causing cancer.

IARC:

Ethylbenzene 2B Possibly carcinogenic to humans  
Xylenes (o, m, p isomers) 3 Not classifiable as to carcinogenicity in humans

**Reproductive toxicity** Not assigned.

**Teratogenicity** No known significant effects or critical hazards.

**Specific target organ toxicity - single exposure (Globally Harmonized System)** May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)** Not assigned.

**Aspiration hazard** May be fatal if swallowed and enters airways.

#### Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

##### Short Term Exposure

**Potential immediate Health Effects** No data available.

**Potential Delayed Health Effects** No data available.

### Long Term Exposure

**Potential immediate Health Effects**      No data available.  
**Potential Delayed Health Effects**        No data available.  
**Potential Chronic Effects**                No data available.

**Synergistic effects**                        No data available

## Section 12 – Ecological Information

### Toxicity

Product / Ingredient Name	Result	Species	Exposure
Ethylbenzene	Acute LC50 4mg/L	Fish – Oncorhynchus mykiss	96 Hr
	Acute EC50 1 – 4mg/L	Daphnia – Daphnia magna	48 Hr
Xylenes (o, m, p isomers)	Acute LC50 13.1 - 16.5mg/L	Fish – Lepomis macrochirus	96 Hr
	Acute LC50 13.5 – 17.3mg/L	Fish – Oncorhynchus mykiss	96 Hr

### Persistence and degradability

Biodegradability                        No data available

### Bioaccumulative potential

Product/Ingredient Name	LogP <sub>ow</sub>	BCF	Potential
Ethylbenzene	3.15	Not available	Not available
Xylene (o, m, p isomers)	3.2	Not available	Not available

**Mobility in soil**                        No data available

**PBT and vPvB assessment**        No data available

**Other adverse effects**                None known.

## Section 13 – Disposal Considerations

**Product**                                    This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**            Dispose of as unused product.

## Section 14 - Transportation Information

CANADA Transportation of Dangerous Goods (TDG)

**Shipping Name**                        UN1307, Xylenes, 3. PG III

**Class**                                        3

**UN Number**                            UN1307

**Packaging Group:**                    III

**Label**





# Safety Data Sheet - GHS

## Xylenes

Date of Revision: June 19, 2019

<b>Environmental hazards</b>	Not a marine pollutant.
<b>Transportation in bulk, if applicable</b>	No data available
<b>Special Precautions</b>	No data available

### Section 15 – Regulatory Information

#### **DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act)**

All components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

#### **TSCA Inventory 12(b)**

All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

### Section 16 – Other Information

#### REVISION SUMMARY:

Date of Preparation	April 1, 2017
Date of Revision	June 19, 2019

SDS Prepared by: CFR Lab Manager

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