

# Xylenes

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Xylenes
<b>Other Means of Identification</b>	Xylene, mixed isomers
<b>Recommended Use</b>	Solvent.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer/Supplier Identifier</b>	Caledon Laboratories Ltd, 40 Armstrong Avenue, Georgetown, Ontario, L7G-4R9, (905) 877-0101, www.caledonlabs.com
<b>Emergency Phone No.</b>	CANUTEC, (613) 996-6666
<b>SDS No.</b>	0115

## SECTION 2. HAZARD IDENTIFICATION

### Classification

Flammable liquid - Category 3; Acute toxicity (Dermal) - Category 4; Acute toxicity (Inhalation) - Category 4; Skin irritation - Category 2; Eye irritation - Category 2A; Carcinogenicity - Category 2; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 2; Aspiration hazard - Category 1; Aquatic hazard (Acute) - Category 2; Aquatic hazard (Chronic) - Category 3

### Label Elements



### Signal Word:

Danger

Flammable liquid and vapour.

May be harmful if swallowed.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

Harmful if inhaled.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

May cause damage to organs (auditory (hearing) system, kidneys, liver, nervous system) through prolonged or repeated exposure if inhaled.

Toxic to aquatic life.

### Precautionary Statement(s):

#### Prevention:

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.

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Do not breathe dust/fume/gas/mist/vapours/spray.  
Wash hands and skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear protective gloves/eye protection/face protection.

**Response:**

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTRE or doctor if you feel unwell.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Call a POISON CENTRE or doctor if you feel unwell.  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice or attention.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use appropriate foam, dry chemical powder to extinguish.

Dry sand,

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents and container in accordance with local, regional, national and international regulations.

**Other Hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Xylene (mixed isomers)	1330-20-7	>=75	EC215-535-7
Ethylbenzene	100-41-4	<=25	EC202-849-4

### SECTION 4. FIRST-AID MEASURES

**First-aid Measures**

**Inhalation**

Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell.

**Skin Contact**

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. If skin irritation occurs, get medical advice or attention. Clean clothing, shoes and leather goods.

**Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

**Ingestion**

Immediately call a Poison Centre or doctor. Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

**First-aid Comments**

Get medical advice or attention if you feel unwell or are concerned.

**Most Important Symptoms and Effects, Acute and Delayed**

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Xylenes is irritating to eyes, respiratory system and skin.

### **Immediate Medical Attention and Special Treatment**

#### **Target Organs**

Eyes, skin, respiratory system, nervous system, auditory (hearing) system.

#### **Special Instructions**

Treat symptomatically. Symptoms may be delayed.

#### **Medical Conditions Aggravated by Exposure**

None known.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

#### **Unsuitable Extinguishing Media**

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

### **Specific Hazards Arising from the Product**

Flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air. May travel a considerable distance to a source of ignition and flash back to a leak or open container. Can accumulate static charge by flow, splashing or agitation. Can be ignited by static discharge. Liquid can float on water and may travel to distant locations and/or spread fire. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, resulting in a fire and/or health hazard. Closed containers may rupture violently when heated releasing contents.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; toxic, flammable aldehydes; irritating chemicals; toxic chemicals.

### **Special Protective Equipment and Precautions for Fire-fighters**

Evacuate area. Fight fire from a protected, explosion-resistant location or maximum distance possible. Use water spray to flush spills away from ignition sources. Stop leak before attempting to put out the fire. Product could form an explosive mixture and reignite. Dike and recover contaminated water for appropriate disposal. Water may be ineffective in fighting the fire. Use water spray to keep fire-exposed containers cool. Closed containers may rupture violently when exposed to the heat of the fire. Do not allow fire protection water to enter sewer or discharge to open water.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

Eliminate all ignition sources. Use grounded, explosion-proof equipment. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient. Distant ignition and flashback are possible.

### **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway. Report releases to regulatory authorities if required by local, state and federal regulations.

### **Methods and Materials for Containment and Cleaning Up**

Stop or reduce leak if safe to do so. Do not use absorbents. Contain spill using noncombustible material such as vermiculite, earth or sand. Place used absorbent into suitable, covered, labelled containers for disposal. Flush spill area. Dike and recover contaminated water for appropriate disposal. Store recovered product in suitable containers that are: tightly-covered.

### **Other Information**

Report spills to local health, safety and environmental authorities, as required.

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## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Obtain special instructions before use. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Wear personal protective equipment to avoid direct contact with this chemical. Only use where there is adequate ventilation. Electrically bond and ground equipment. Ground clips must contact bare metal. Do not breathe in this product. Avoid generating vapours or mists. Wash hands thoroughly after handling this material.

### Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated, clear of combustible and flammable materials (e.g. old rags, cardboard). Store in a closed container. Comply with all applicable health and safety regulations, fire and building codes.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Xylene (mixed isomers)	100 ppm	150 ppm	100 ppm			
Ethylbenzene	20 ppm	125 ppm				

### Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots. Wear fire resistant or flame retardant clothing. Suitable materials are: polyvinyl alcohol, Viton®/butyl rubber. The following materials should NOT be used: butyl rubber, nitrile rubber.

#### Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Clear colourless.
Odour	Aromatic
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	-41 - 0 °C (-42 - 32 °F) (melting); -42 - 32 °F (-41 - 0 °C) (freezing)
Initial Boiling Point/Range	137 - 140 °C (279 - 284 °F)
Flash Point	25 °C (77 °F) (closed cup)
Evaporation Rate	0.76 (n-butyl acetate = 1)
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	7% (upper); 0.9% (lower)
Vapour Pressure	1.1 kPa (8.3 mm Hg)

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<b>Vapour Density (air = 1)</b>	3.66 (calculated)
<b>Relative Density (water = 1)</b>	0.86 at 20 °C
<b>Solubility</b>	Practically insoluble (less than 1 g/L) in water; Soluble in all proportions in alcohols (e.g. ethanol).
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	464 °C (867 °F)
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	0.71 - 0.92 centistokes at 20 °C (kinematic); 0.62 - 0.81 centipoises at 20 °C (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Molecular Formula</b>	C8H10
<b>Molecular Weight</b>	106.17

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

Vapours may form explosive mixture with air.

### Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

### Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), strong acids (e.g. hydrochloric acid).

### Hazardous Decomposition Products

Under fire conditions carbon monoxide and carbon dioxide are produced.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

### Acute Toxicity

LC50 (male rat): 6350 ppm (4-hour exposure) (unspecified xylene isomers and ethylbenzene)

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

### Skin Corrosion/Irritation

Animal tests show moderate or severe irritation.

### Serious Eye Damage/Irritation

Animal tests show very mild irritation.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

At high concentrations causes severe nose and throat irritation, depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

#### Skin Absorption

(Xylene (mixed isomers)) causes skin irritation.

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### **Ingestion**

If large amounts are swallowed causes damage to organs depression of the central nervous system.

### **Aspiration Hazard**

May be drawn into the lungs (aspirated) if swallowed or vomited. Death can result.

### **STOT (Specific Target Organ Toxicity) - Repeated Exposure**

May cause effects on the central nervous system, harmful effects on the hearing (auditory) system, irritation of the respiratory system. Respiratory tract injury has been observed.

### **Respiratory and/or Skin Sensitization**

Not a skin sensitizer.

### **Carcinogenicity**

IARC. (Xylene (mixed isomers)) Group 3 – Not classifiable as to its carcinogenicity to humans. (Ethylbenzene) Group 2B – Possibly carcinogenic to humans.

### **Reproductive Toxicity**

#### **Development of Offspring**

Animal studies show effects on the offspring. Known to cause: decreased weight, minor reversible effects (e.g. delayed ossification), long-lasting behavioural changes.

#### **Sexual Function and Fertility**

Animal studies show effects on sexual function and/or fertility.

#### **Effects on or via Lactation**

No information was located.

### **Germ Cell Mutagenicity**

Not known to be a mutagen.

### **Interactive Effects**

No information was located.

### **Other Information**

The toxicological properties have not been fully investigated.

## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Xylenes: LC 50 -- Fathead minnow (*Pimephales promelas*), 96 h 25.62 -- 32.64 mg/l Mortality

Ethyl benzene: LC 50 -- Fathead minnow (*Pimephales promelas*), 96 h 9.1 -- 15.6 mg/l Mortality

### **Persistence and Degradability**

Expected to be readily biodegradable.

### **Bioaccumulative Potential**

This product and its degradation products are not expected to bioaccumulate based on the fish bioconcentration factor (BCF). 14 - 25.9.

### **Mobility in Soil**

The product is insoluble in water and will spread on the water surface. If released into the environment, this product is expected to move slowly through the soil, based on physical and chemical properties.

### **Other Adverse Effects**

Toxic to aquatic life.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal Methods**

Burn in an approved incinerator according to federal, provincial/state, and local regulations. This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water.

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## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1307	Xylenes	3	III
IMO (Marine)	UN1307	Xylenes	3	III
IATA (Air)	UN1307	Xylenes	3	III

**Environmental Hazards** Not applicable

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

##### CEPA - National Pollutant Release Inventory (NPRI)

Part 5. (Xylene (mixed isomers)) Part 1A. (Ethylbenzene)

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

**NFPA Rating** Health - 2 Flammability - 3 Instability - 0

**SDS Prepared By** Caledon Laboratories Ltd

**Date of Preparation** May 16, 2017

**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Supplier Safety Data Sheets.

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