

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

**Product name:** Xylol

**SDS number:** CR.XY

**Synonym(s):** Xylenes; Xylene isomers and ethylbenzene; Dimethylbenzenes and ethylbenzene

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**General use:** Solvent, fuel, feedstock

**Uses advised against:** None known

### 1.3 Details of the supplier and of the safety data sheet

**Manufacturer/Distributor**

Packaging Service Co., Inc.

1904 Mykawa Road

Pearland, TX 77581-3210 USA

1-281-485-1458

### 1.4 Emergency telephone number

CHEMTREC: 1-800-424-9300 (USA)

CANUTEC: 1-613-996-6666 (Canada)

## SECTION 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of substance or mixture

**Product definition:** Mixture

**Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation EC No. 1272/2008**

Flammable Liquid - Category 3 [H226]

Acute Toxicity, Oral - Category 5 [H303]

Aspiration Hazard - Category 1 [H304]

Acute Toxicity, Dermal - Category 4 [H312]

Skin Irritant - Category 2 [H315]

Acute Toxicity, Inhalation - Category 4 [H332]

Single Target Organ Toxicity, Single Exposure - Category 3; STOT SE 3 [H336]

Single Target Organ Toxicity, Repeated Exposure - Category 2; STOT RE 2 [H373]

### 2.2 Label elements

**Hazard Symbols**



GHS02

GHS08

GHS07

**Signal word:**

Danger

**Hazard statement(s):**

H226 - Flammable liquid and vapor

H303 - May be harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H373 - May cause damage to the auditory system through prolonged and repeated exposure

**Precautionary statements:**

**[Prevention]**

P210 - Keep away from heat, open flames and hot surfaces. No smoking.

P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P241 + P242 - Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe fumes, mist and vapor.

P264 - Wash hands thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing and eye protection.

**[Response]**

P301 + P331 + P310 - IF SWALLOWED: DO NOT induce vomiting. Immediately call a POISON CENTER or doctor.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.

P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or a doctor if you feel unwell.

P321 - Specific treatment: Call a POISON CENTER or doctor if you feel unwell. Refer to Section 4 of this SDS.

[Storage]  
[Disposal]

P332 + P313 - If skin irritation occurs: Get medical attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P370 + P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.  
P405 + P403 + P233 + P235 - Store locked up in a well-ventilated place. Keep container tightly closed. Keep cool.  
P501 - Dispose of contents and containers in accordance with national and local regulations.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Repeated exposure may cause skin dryness or cracking.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

% by Weight	Ingredient	CAS Number	EC Number	Annex Number	GHS Classification
60 -100	Xylenes, Mixed	1330-20-7	215-535-7	601-022-00-9	H226, H312, H315, H336
10 - 30	Ethylbenzene	100-41-4	202-849-4	601-023-00-4	H225, H304, H332, H373
0.1 - 1.0	Cumene	98-82-8	202-704-5	601-024-00-X	H226, H304, H335, H411

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identify and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with the applicable provisions of paragraph (i).

There are no ingredients present in this product which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## SECTION 4 - FIRST AID MEASURES

### 4.1 Description of first aid measures

**Inhalation:** If product mist or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If irritation persists or if the victim feels unwell, seek medical attention.

**Eyes:** Immediately flush eyes with large amounts of water or saline solution for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue rinsing. If irritation persists seek medical attention, preferably from an ophthalmologist.

**Skin:** Flush skin with large amounts of water while removing contaminated clothing. Wash the affected area with soap and water followed by thorough rinsing. Wash contaminated clothing and shoes before reuse. If irritation persists, seek medical attention.

**Ingestion:** Rinse mouth with water if the victim is conscious. Remove dentures, if present. DO NOT induce vomiting unless directed to do so by medical personnel. Vomiting may occur spontaneously. To prevent aspiration of material into the lungs, lay the victim on one side with the head lower than the waist. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Seek immediate medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential health symptoms and effects

**Eyes:** Causes eye irritation with inflammation, discomfort, tearing and blurred vision. Vapor or mist can cause eye irritation.

**Skin:** Causes skin irritation with localized redness, itching and discomfort. Prolonged contact with unprotected skin may cause defatting of the skin and dermatitis. Prolonged contact may cause chemical burns and blistering. Harmful if absorbed through the skin.

**Inhalation:** Harmful if inhaled. May cause respiratory tract irritation with headache, cough and shortness of breath. May cause nausea, vomiting, drowsiness, dizziness, anesthetic effects, narcosis, fatigue, cyanosis, apnea and cardiac arrest. May cause central nervous system depression and other central nervous system effects including incoordination, impaired mental and physical abilities, speech impairment, unconsciousness, coma and death. Lung irritation may lead to chemical pneumonitis and pulmonary edema. May cause reversible liver and kidney damage.

**Ingestion:** Harmful if swallowed. Causes irritation of the digestive tract with nausea, vomiting, abdominal pain and diarrhea. May cause central nervous system depression characterized by excitement, followed by headache, dizziness, drowsiness and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. May cause reversible liver and kidney damage. This material can get into the lungs during swallowing or vomiting causing lung inflammation and chemical pneumonitis, which maybe fatal. Symptoms of aspiration into the lungs include coughing, gasping, choking, shortness of breath, bluish colored skin, rapid breathing and rapid heart rate.

**Chronic:** Individuals with pre-existing skin conditions and respiratory disorders may be more susceptible to the effects of this product. Prolonged or repeated skin contact may cause defatting of the skin and dermatitis or aggravate existing skin conditions. Chronic exposure may cause reversible eye damage, dyspnea (labored breathing), confusion, dizziness, apprehension, memory loss, headache, tremors, weakness, anorexia, nausea, tinnitus, irritability, thirst, mild changed in liver function, kidney impairment, anemia and hyperplasia, but not destruction of the bone marrow. Effects may be delayed. Impaired central nervous system functions from pre-existing disorders may be aggravated by exposure to this product. Xylene is a confirmed animal carcinogen. Ethylbenzene and Cumene are possible human carcinogens. Exposure to this product may harm the unborn child. Refer to Section 11.2.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Advice to doctor and hospital personnel

If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider active 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

### 5.1 Extinguishable media

**Suitable methods of extinction:** Use extinguishing media such as water spray or fog, carbon dioxide, foam and dry chemical.

**Unsuitable methods of extinction:** Water jets or streams may spread the fire. This material floats on water.

### 5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapor! Vapors are heavier than air and can travel along the ground to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Exposure to ignition sources (e.g cell phones) can ignite vapors, causing a flash fire. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

**Explosion hazards:** Avoid sources of ignition. Vapors may form an explosive mixture with air, especially in confined spaces. Ground and bond containers in storage and when container is in use.

### 5.3 Advice for firefighters

Firefighters should wear full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. Be aware that burning liquid will float on water.

Firefighters must control runoff to prevent environmental contamination. Notify appropriate authorities of potential fire and explosion hazard if liquid enters sewers or waterways.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear appropriate protective clothing and equipment designated in Section 8.2. Ventilate the area. Remove all sources of ignition. NO SMOKING. Clean up spills immediately. Spills create a slip hazard.

### 6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements.

### 6.3 Methods and materials for containment and cleaning up

Approach spill from upwind direction. DO NOT flush spill down the drain. Cover drains and contain spill. Cover spill with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect material using non-sparking tools and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Do not allow material or runoff from rinsing contaminated areas to enter floor drains or storm drains and ditches that lead to waterways. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

For indications about waste treatment, see Section 13.

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Wear all appropriate personal protective equipment specified in Section 8.2. Do not get in eyes or on skin or clothing. Do not inhale mist or vapor. NO SMOKING. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Open containers slowly to control possible pressure release. Wash contaminated clothing and shoes thoroughly before reuse.

#### Advice on protection against fire and explosion

Keep away from heat and sources of ignition. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Vapors are heavier than air and can travel along the ground to a source of ignition and flash back.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in dry, cool, well-ventilated areas away from incompatible materials (see Section 10.5), food and drink. Keep away from heat and ignition sources. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers are hazardous when empty as they contain product residues. Do not cut, drill, weld, braze, solder grind or perform similar operations on or near empty containers. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

### 7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational exposure limit values

CAS Number	Ingredient	OSHA PEL	ACGIH TLV	NIOSH
1330-20-7	Xylene	100 ppm; 435 mg/m <sup>3</sup> TWA	100 ppm; 435 mg/m <sup>3</sup> TWA	100 ppm; 435 mg/m <sup>3</sup> TWA 150 ppm; 655 mg/m <sup>3</sup> STEL 900 ppm IDLH
100-41-4	Ethylbenzene	100 ppm; 435 mg/m <sup>3</sup> TWA	20 ppm; 87 mg/m <sup>3</sup> TWA	100 ppm; 435 mg/m <sup>3</sup> TWA 125 ppm; 545 mg/m <sup>3</sup> STEL 800 ppm IDLH (LEL)
98-82-8	Cumene	50 ppm; 245 mg/m <sup>3</sup> TWA Skin	50 ppm; 246 mg/m <sup>3</sup> ; Skin 400 ppm; 984 mg/m <sup>3</sup> STEL	50 ppm; 245 mg/m <sup>3</sup> ; Skin 900 ppm (10% LEL)

A "skin" notation following the inhalation exposure guideline refers to the potential for dermal absorption of the material, including eyes and mucous membranes, either by direct contact with vapors or by direct skin contact. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposure should be considered.

## 8.2 Exposure controls

**Engineering measures:** Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1.

**Individual protection measures:** Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

**Hygiene measures:** Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory.

**Eye/face protection:** Wear safety glasses with unperforated side shields or protective splash goggles during use.

**Hand Protection:** Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

**Skin protection:** Wear protective clothing. Wear protective boots if the situation requires.

**Respiratory protection:** Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a half-mask respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

**Environmental exposure controls:** Do not empty into drains.

*PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.*



Safety Glasses



Gloves



Protective Apron

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Clear, colorless liquid
Odor	Sweet, pungent aromatic hydrocarbon
Odor Threshold	1 ppm (Xylenes)
Molecular Weight	106.17 g/mol (Xylenes)
Chemical Formula	C <sub>8</sub> H <sub>10</sub> (Xylenes)
pH	No data available
Freezing/Melting Point	-48 °C (-54.4 °F)
Boiling Point	138 °C (280.4 °F)
Evaporation Rate	0.8 (n-BuAc =1)
Flammability (solid, gas)	Not applicable
Flash Point Range	26.9 - 31.9 °C (80.3 - 89.3 °F), closed cup
Autoignition Temperature	432 °C (809.6 °F)
Decomposition Temperature	No data available
Lower Explosive Limit (LEL)	1% (v)
Upper Explosive Limit (UEL)	7% (v)
Vapor Pressure	0.93 kPa (7 mm Hg), ambient
Vapor Density	3.7 (Air = 1)
Specific Gravity	0.87
Density	0.8687 g/ml (7.256 lb/gal)
Viscosity	No data available
Solubility in Water	Negligible
Partition Coefficient: n-octanol/water	log Pow = 3.12 - 3.2
Oxidizing Properties	Not applicable
Explosive Properties	Not applicable
Volatiles by Weight @ 21 °C	100%

### 9.2 Other data

Flammability Classification	IC
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## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal handling conditions and use.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Vapors may form explosive mixture with air. Reacts with strong oxidizing agents.

Hazardous polymerization will not occur.

#### 10.4 Conditions to avoid

High temperatures, sources of ignition, hot surfaces, contact with incompatible materials

#### 10.5 Incompatible materials

Strong oxidizing agents, strong reducing agents, strong acids, alkalis, rubber, various plastics

#### 10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon and hydrocarbons.

### SECTION 11 - TOXICOLOGICAL INFORMATION

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#### 11.1 Information on toxicological effects

##### Acute oral toxicity

LD<sub>50</sub>, rat: >3,817 mg/kg [calculated]

##### Acute inhalation toxicity

LC<sub>50</sub>, rat: >23,393 mg/m<sup>3</sup> [calculated]

##### Acute dermal toxicity

LD<sub>50</sub>, rabbit: >10,004 mg/kg [calculated]

##### Skin irritation

Causes skin irritation.

##### Eye irritation

Causes eye irritation.

##### Sensitization

No data available

##### Genotoxicity in vitro

No data available

##### Mutagenicity

No data available

##### Specific organ toxicity - single exposure

May cause drowsiness or dizziness. May be irritating to the respiratory tract.

##### Specific organ toxicity - repeated exposure

Causes damage to the auditory system through prolonged and repeated use.

##### Aspiration hazard

May be fatal if swallowed and enters the airways.

#### 11.2 Further information

Xylene (CAS #1330-20-7): IARC, Group 3 carcinogen - *Not classifiable as to its carcinogenicity to humans*. ACGIH, A4 - *Not classifiable as a human carcinogen*. Not listed as a carcinogen by NTP or OSHA. Xylene is a developmental hazard and may harm the unborn child based on animal information. It has been associated with low birth weight or size and learning disabilities.

Ethylbenzene (CAS #100-41-0): IARC, Group 2B carcinogen - *Possibly carcinogenic to humans*; ACGIH, A3 - *Confirmed animal carcinogen with unknown relevance to humans*. Not listed as a carcinogen by NTP or OSHA. Ethylbenzene may have teratogenic effects based upon results of laboratory experiments.

Cumene (CAS #98-82-8): IARC, Group 2B carcinogen - *Possibly carcinogenic to humans*; NTP - *Reasonably anticipated to be a human carcinogen*. Not listed as a carcinogen by ACGIH or OSHA.

### SECTION 12 - ECOLOGICAL INFORMATION

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#### 12.1 Toxicity

This product is toxic to aquatic organisms.

#### 12.2 Persistence and degradability

This product is expected to biodegrade over time.

#### 12.3 Bioaccumulation potential

The bioaccumulation potential for this product is low.

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

##### Additional ecological information

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### SECTION 13 - DISPOSAL CONSIDERATIONS

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#### 13.1 Waste treatment methods

**Methods of disposal:** The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**RCRA F-Series:** No listings above the reportable threshold (de minimis)

**RCRA U-Series**

Xylene(CAS #1330-20-7), U239

Cumene (CAS #98-82-8), U055

## SECTION 14 - TRANSPORT INFORMATION

**Note:** Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

### USA DOT (Ground Transportation) - Bulk and Non-bulk

*Drum Label(s)*

**Proper Shipping Name:** Xylenes  
**Hazard Class:** 3  
**UN/NA:** UN1307  
**Packing Group:** III  
**NAERG:** Guide #130  
**Packaging Authorization:** Non-Bulk: 49 CFR 173.203; Bulk: 173.242  
**Packaging Exceptions:** 49 CFR 173.150  
**Consumer Products:** Non-regulated for flammable liquids Packing Group III when inner packagings are not over 5.0 liters (1.3 gallons) net capacity each, packed in a strong outer packaging



### IMO/IMDG (Water Transportation)

**Proper Shipping Name:** Xylenes  
**Hazard Class:** 3  
**UN/NA:** UN1307  
**Packing Group:** III  
**Marine Pollutant:** No  
**EMS Number:** F-E, S-D

### ICAO/IATA (Air Transportation)

**Proper Shipping Name:** Xylenes  
**Hazard Class:** 3  
**UN/NA:** UN1307  
**Packing Group:** III  
**Quantity Limitations:** 49 CFR 175.27 and 175.75 - Cargo Aircraft Only: 60 l; Passenger Aircraft: 5 l

### RID/ADR (Rail Transportation)

**Proper Shipping Name:** Xylenes  
**Hazard Class:** 3  
**UN/NA:** UN1307  
**Packing Group:** III

## SECTION 15 - REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

#### U. S. Federal Regulations

**OSHA Hazard Communication Standard:** This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

**OSHA Process Safety Management Standard:** This product is not regulated under OSHA PSM Standard 29 CFR 1910.119.

**EPA Risk Management Planning Standard:** This product is not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

**EPA Federal Insecticide, Fungicide and Rodenticide Act:** This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

**Toxic Substance Control Act (TSCA) Inventory:** All of the substances in this product are listed on the TSCA Inventory. This product is not subject to TSCA 12(b) Export Notification.

**Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b)) and 1310.4(f)(2)) and Chemical Code Number**  
No listing

**Drug Enforcement Administration (DEA) Lists 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number**  
No listing

**Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals**  
No listing

#### **Superfund Amendments and Reauthorization Act (SARA)**

**SARA Section 311/312 Hazard Categories:** Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**SARA 313 Information:** Xylene, Ethylbenzene and Cumene are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

**SARA 302/304 Extremely Hazardous Substance:** No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

**SARA 302/304 Emergency Planning & Notification:** No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

**Comprehensive Response Compensation and Liability Act (CERCLA):** This product contains the following CERCLA reportable substances:

Xylene (CAS #1330-20-7): RQ - 45.4 kg (100 lbs)

Ethylbenzene (CAS #100-41-4): RQ - 454 kg (1,000 lbs)

Cumene (CAS #98-82-8): RQ -2,268 kg (5,000 lbs)



### Clean Air Act (CAA)

Xylene, Ethylbenzene and Cumene are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depleters.

This product does not contain any Class 2 Ozone depleters.

### Clean Water Act (CWA)

Ethylbenzene and Cumene are listed as Hazardous Substances under the CWA.

Ethylbenzene is listed as a Priority Pollutant under the CWA.

Ethylbenzene is listed as Toxic Pollutants under the CWA.

### U.S. State Regulations

#### California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

Ethylbenzene and Cumene are known to the state of California to cause cancer.

#### Other U.S. State Inventories

Xylene (CAS #1330-20-7) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, DE, ID, ME, MA, MN, NJ, NY, PA, RI, WA.

Ethylbenzene (CAS #100-41-1) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, DE, ID, IL, ME, MA, MN, NJ, NY, PA, RI, WA, WI.

Cumene (CAS #98-82-8) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, DE, ID, IL, MA, MN, NJ, NY, PA, RI, WA, WV, WI.

### Canada

#### WHMIS Hazard Classification

Highly flammable liquid and vapor

May cause drowsiness or dizziness

May be fatal if swallowed and enters airways

Suspected of causing cancer.

Causes skin irritation and serious eye irritation

May cause damage to organs through prolonged or repeated exposure

Harmful if inhaled

**Canadian National Pollutant Release Inventory (NPRI):** Xylene, Ethylbenzene and Cumene are listed on the NPRI.

### European Economic Community

**WGK, Germany (Water danger/protection):** 2 (hazard to waters)

### Global Chemical Inventory Lists

Country	Inventory Name	Inventory Listing*
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
United States	Toxic Substance Control Act (TSCA)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (KECL)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

\*Yes - All components of this product are in compliance with the inventory requirements administered by the governing country.

No - One or more components of this product are not on the inventory or are exempt from listing.

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16 - OTHER INFORMATION

### Hazardous Material Information System (HMIS)

Health	2
Flammability	3
Physical Hazard	0
Personal Protection	C

C = safety glasses, gloves and an apron

#### HMIS Hazard Rating Legend

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious  
4 = Severe \* = Chronic Health Hazard

#### NFPA Hazard Rating Legend

0 = Insignificant 1 = Slight 2 = Moderate  
3 = High 4 = Extreme

### National Fire Protection Association (NFPA)

#### Flammability



#### Special

### Full Text of GHS Hazard Phrases Referenced in Section 3 (not covered in Section 2)

H226 - Flammable liquid and vapor

H361D - Suspected of damaging the unborn child

H312 - Harmful in contact with skin

### Abbreviation Key

ACGIH	American Conference of Governmental Industrial Hygienists	mppcf	Millions of Particles Per Cubic Foot
ADR	Accord Dangereux Routier (European regulations concerning the international transport of dangerous by road)	NA	North America
CAS	Chemical Abstract Services	NAERG	North American Emergency Response Guide Book
CFR	Code of Federal Regulations	NIOSH	National Institute for Occupational Safety
DOT	Department of Transportation	NTP	National Toxicology Program
		OSHA	Occupational Safety and Health Administration
		PBT	Persistent, Bioaccumulating and Toxic

<b>EMS Guide</b>	Emergency Response Procedures for Ships Carrying Dangerous Goods
<b>EPA</b>	Environmental Protection Agency
<b>ERG</b>	Emergency Response Guide Book
<b>FDA</b>	Food and Drug Administration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
<b>HCS</b>	Hazard Communication Standard
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IDLH</b>	Immediately Dangerous to Life and Health
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IMO</b>	International Maritime Organization

<b>PEL</b>	Permissible Exposure Limit
<b>PMCC</b>	Pensky-Martens Closed Cup
<b>ppm</b>	Parts Per Million
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>RID</b>	Dangerous Goods by Rail
<b>RQ</b>	Reportable Quantity
<b>TCC/Tag</b>	Tagliabue Closed Cup
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substance Control Act
<b>TWA</b>	Time-Weighted Average
<b>UN</b>	United Nations
<b>VOC</b>	Volatile Organic Compounds
<b>vPvB</b>	Very Persistent and Very Bioaccumulating
<b>WHMIS</b>	Workplace Hazardous Materials Information System

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Revision Date: 27 October 2017

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