

## MATERIAL SAFETY DATA SHEET

**EPON 1001-X75**

Version Number 1.0  
Revision Date 05/23/2003

Page 1 of 8  
Print Date 11/11/2011

<b>1. PRODUCT AND COMPANY IDENTIFICATION</b>
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**POLYONE CORPORATION**  
2700 Papin Street, St. Louis, MO 63103

NON-EMERGENCY TELEPHONE : Product Stewardship, (314) 771-1800

Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : EPON 1001-X75

Product code : FO20005036

Chemical Name : Mixture

CAS-No. : Mixture

Product Use : Industrial Applications

<b>2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS</b>
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Components	CAS-No.	Weight %
Ethyl benzene	100-41-4	1 - 5
Xylenes (o-, m-, p- isomers)	1330-20-7	10 - 30

<b>3. HAZARDS IDENTIFICATION</b>
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**EMERGENCY OVERVIEW**

Flammable. May be harmful if inhaled. Harmful if swallowed. May cause skin irritation. Flammable liquid and vapor. Vapors may be irritating to eyes and respiratory tract. This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. In addition, heating or processing this material may result in product degradation or byproduct formation creating additional hazards. See Sections 8 and 11 for additional details.

**POTENTIAL HEALTH EFFECTS**

**Routes of Exposure:** : Inhalation, Skin contact, Ingestion

**Acute exposure**

Inhalation : Excessive inhalation of product vapors may cause respiratory irritation, headaches, dizziness, and/or nausea.

Ingestion : May be harmful if swallowed. May cause nausea, abdominal spasms and irritation of the mucous membranes.

Eyes : Liquid, aerosol, or vapors of this product are irritating and may cause tearing, reddening, and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Skin : Prolonged or repeated skin contact can cause de-fatting and drying of the skin which may result in skin irritation and dermatitis (rash).

## MATERIAL SAFETY DATA SHEET

**EPON 1001-X75**

Version Number 1.0  
Revision Date 05/23/2003

Page 2 of 8  
Print Date 11/11/2011

- Chronic exposure** : Refer to Section 11 for Toxicological Information.
- Medical Conditions Aggravated by Exposure:** : Individuals with chronic respiratory disorders (i.e. asthma, chronic bronchitis, etc.) may be adversely affected by any airborne contaminant.

**4. FIRST AID MEASURES**

- Inhalation** : Move to fresh air in case of accidental inhalation of vapours or decomposition products. Seek medical attention after significant exposure.
- Ingestion** : Do not induce vomiting without medical advice. If conscious, drink plenty of water. Seek medical attention if necessary.
- Eyes** : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical attention.
- Skin** : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

**5. FIRE-FIGHTING MEASURES**

- Flash point** : Less than 75 °F (24 °C)
- Flammable Limits**
- Upper explosion limit : No data available.
  - Lower explosion limit : No data available.
- Autoignition temperature** : No data available.
- Suitable extinguishing media** : foam, dry chemical, carbon dioxide (CO<sub>2</sub>), Water spray.
- Special Fire Fighting Procedures** : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
- Unusual Fire/Explosion Hazards** : None

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
- Environmental precautions** : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
- Methods for cleaning up** : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## MATERIAL SAFETY DATA SHEET

**EPON 1001-X75**Version Number 1.0  
Revision Date 05/23/2003Page 3 of 8  
Print Date 11/11/2011**7. HANDLING AND STORAGE**

- Handling : Flammable liquid. Keep away from flames, hot surfaces, and sources of ignition. Use of non-sparking or explosion-proof equipment may be necessary. Never use compressed air for transferring product. Ensure all equipment is electrically grounded before beginning transfer operations. Take measures to prevent the build up of static electricity. Use only in area provided with appropriate exhaust ventilation.
- Storage : Store below 120 °F (49 °C) Keep containers tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammable Liquid. Check local fire regulations for sprinkler or explosion proof storage location requirements.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Respiratory protection : Airborne contaminant levels should be maintained below the occupational exposure guidelines. When respiratory protection is required, use an approved air-purifying or positive pressure supplied-air respirator, depending upon potential airborne contaminant concentrations. Employees using respirators must be properly trained. Employers must follow applicable regulations such as OSHA 29 CFR 1910.134.
- Eye/Face Protection : Wear goggles or face shield during operations that present a splash potential.
- Hand protection : Protective gloves.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Additional Protective Measures : Safety shoes.
- General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas.
- Engineering measures : Provide general and/or local exhaust ventilation to control airborne contaminant levels below the exposure guidelines.

Exposure limit(s)

## MATERIAL SAFETY DATA SHEET

**EPON 1001-X75**Version Number 1.0  
Revision Date 05/23/2003Page 4 of 8  
Print Date 11/11/2011

Components	Value	Exposure time	Exposure type	List:
Ethyl benzene	100 ppm	Time Weighted Average (TWA):	Vapor and aerosol.	ACGIH
	434 mg/m3			
	125 ppm	Short Term Exposure Limit (STEL):	Vapor and aerosol.	ACGIH
	543 mg/m3			
Ethyl benzene	100 ppm	PEL:	Vapor and aerosol.	OSHA Z1
	435 mg/m3			
Xylenes (o-, m-, p-isomers)	100 ppm	PEL:	Vapor and aerosol.	OSHA Z1
	435 mg/m3			
Xylenes (o-, m-, p-isomers)	100 ppm	Time Weighted Average (TWA):	Vapor and aerosol.	ACGIH
	150 ppm			
	150 ppm	Short Term Exposure Limit (STEL):	Vapor and aerosol.	ACGIH

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Liquid	Evaporation rate	: Faster than Butyl Acetate
Appearance	: Liquid	Specific Gravity	: Not determined
Color	: NO PIGMENT	Bulk density	: Not applicable.
Odor	: Solvent	Vapor pressure	: Not determined
Melting point/range	: Not applicable.	Vapor density	: Heavier than air.
Boiling Point:	: No data available.	pH	: Not determined
Water solubility	: Negligible		

**10. STABILITY AND REACTIVITY**

Stability	: Stable.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Keep away from oxidizing agents and open flame. Heat, flames and sparks.
Incompatible Materials	: Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), other hazardous materials, and smoke are all possible.

**11. TOXICOLOGICAL INFORMATION**

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
100-41-4	Ethyl benzene	Irritant	Eyes, Skin, Respiratory system.

## MATERIAL SAFETY DATA SHEET

**EPON 1001-X75**Version Number 1.0  
Revision Date 05/23/2003Page 5 of 8  
Print Date 11/11/2011

		Systemic effects	Eyes, Skin, Respiratory system, central nervous system.
1330-20-7	Xylenes (o-, m-, p-isomers)	Irritant	Eyes, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system, blood and blood forming system, Liver, Kidney, central nervous system, digestive system.

## LC50 / LD50

This product contains the following components which in their pure form have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
100-41-4	Ethyl benzene	Oral LD50	3,500 mg/kg	rat
		Dermal LD50	17800 ul/kg	rabbit
1330-20-7	Xylenes (o-, m-, p-isomers)	LC50	5000 ppm/4H	rat
		Oral LD50	4,300 mg/kg	rat
		Dermal LD50	> 1,700 mg/kg	rabbit

## Carcinogenicity:

This product contains the following components which in their pure form have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
100-41-4	Ethyl benzene	no	2B	no

## IARC Carcinogen Classifications:

- 1 - The component is carcinogenic to humans.
- 2A - The component is probably carcinogenic to humans.
- 2B - The component is possibly carcinogenic to humans.

## NTP Carcinogen Classifications:

- 1 - The component is known to be a human carcinogen.
- 2 - The component is reasonably anticipated to be a human carcinogen.

**12. ECOLOGICAL INFORMATION**

Persistence and degradability	: No data available.
Environmental Toxicity	: Adverse ecological impact is not known or expected under normal use.
Bioaccumulation Potential	: No data available.
Additional advice	: No data available.

**13. DISPOSAL CONSIDERATIONS**

Product	: Dispose of properly. Do not dump into sewers, on the ground, or into any body of water. Where possible, recycling is preferred to disposal
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MATERIAL SAFETY DATA SHEET

**EPON 1001-X75**

Version Number 1.0  
 Revision Date 05/23/2003

Page 6 of 8  
 Print Date 11/11/2011

or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

**14. TRANSPORT INFORMATION**

U.S. DOT Classification  
 Proper Shipping Name: Resin solution  
 Technical Name:  
 Hazard Class / Division 3  
 UN Number UN1866  
 Packing Group III  
 Label Required 3  
 Hazardous Substance Xylene  
 Reportable quantity: 400 LB

ICAO/IATA Refer to specific regulation.

IMO / IMDG Refer to specific regulation.

**15. REGULATORY INFORMATION**

US Regulations:

OSHA Status : Classified as hazardous based on components.

TSCA Status : All components of this product are listed on or exempt from the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
Xylenes (o-, m-, p- isomers)	1330-20-7	25.0000	100 lbs	400 LB

California Proposition 65 : This product does not contain a substance listed by California Prop 65.

SARA Title III Section 302 Extremely Hazardous Substance

## MATERIAL SAFETY DATA SHEET

**EPON 1001-X75**Version Number 1.0  
Revision Date 05/23/2003Page 7 of 8  
Print Date 11/11/2011

Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ETHYLBENZENE	100-41-4	3.90
XYLENE (MIXED ISOMERS)	1330-20-7	25.00

Canadian Regulations:

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
100-41-4
1330-20-7

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS : Listed.

China IECS : Listed.

Europe EINECS : Not determined.

Japan ENCS : Not determined.

Korea KECI : Listed.

Philippines PICCS : Listed.

**16. OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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MATERIAL SAFETY DATA SHEET

**EPON 1001-X75**

Version Number 1.0

Revision Date 05/23/2003

Page 8 of 8

Print Date 11/11/2011