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DOCUMENT #: F/RPI/QC 7.7.3-02-00	PRODUCT NAME: XYLENE (Reagent Grade)		RPI ITEM NO: 400460

### **SECTION 1 - CHEMICAL IDENTIFICATION**

PRODUCT NAME: XYLENE (Reagent Grade)  
 RPI CATALOG #: 400460  
 SUPPLIER'S NAME: Research Products International Corp.  
 SUPPLIERS ADDRESS: 410 N Business Center Drive Mount Prospect, IL 60056  
 EMERGENCY CONTACT: 1-800-424-9300  
 OTHER INFORMATION: 847-635-7330

### **SECTION 2 - HAZARDS IDENTIFICATION**

#### **2.1 Classification of the substance or mixture**

##### **GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

H226	Flammable liquids	Category 3
H304	Aspiration hazard	Category 1
H312	Acute toxicity, dermal	Category 4
H315	Skin corrosion/irritation	Category 2
H351	Carcinogenicity	Category 2
H373	Specific target organ toxicity - repeated exposure	Category 2
H401	Acute aquatic toxicity	Category 2

#### **2.2 GHS Label elements, including Hazard and Precautionary Statement(s)**

##### **Pictogram**



**Signal word: Danger**

##### **Hazard statement(s)**

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H351	Suspected of causing cancer
H373	May cause genetic defects
H401	toxic to aquatic life

##### **Prevention, Response, Storage and Disposal Precautionary Statement(s)**

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P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling
P273	Avoid release to the environment
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304	Do NOT induce vomiting.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

### **SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Component</b>	<b>CAS Number</b>	<b>EINECS Number</b>	<b>%age</b>
Xylene	1330-20-7	215-535-7	70.0-90.0 %
Ethyl benzene	100-41-4	202-849-4	10.0-3.0%

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#### **SECTION 4 - FIRST-AID MEASURES**

##### **4.1 Description of first aid measures**

**General advice:** Consult a doctor and show this safety data sheet.

- i. **If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- ii. **In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- iii. **In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- iv. **If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

**4.2 Most important symptoms and effects, both acute and delayed:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**4.3 Indication of immediate medical attention and special treatment needed:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

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

##### **5.1 Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**5.2 Special hazards arising from the substance or mixture:** Carbon oxides.

**5.3 Precautions for fire-fighters:** Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

**5.4 Further information:** No data available

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:** Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

**6.2 Environmental precautions:** Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up:** Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

**6.4 Reference to other sections:** For required PPE see section 8. For disposal see section 13.

#### **SECTION 7 - HANDLING AND STORAGE**

**7.1 Precautions for safe handling:** Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

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**7.2 Conditions for safe storage, including any incompatibilities:** Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

**7.3 Specific end use(s):** Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

### **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1 Control parameters**

##### **Components with workplace control parameters**

Component		CAS Number	EINECS Number
Xylene		1330-20-7	215-535-7
Value	Control parameters	Basis	Remarks
TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV).	Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen.
STEL	150.000000 ppm	USA. ACGIH Threshold Limit Values (TLV).	Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen.
TWA	100.000000 ppm 435.000000 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	The value in mg/m <sup>3</sup> is approximate.
TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV).	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen.
STEL	150.000000 ppm	USA. ACGIH Threshold Limit Values (TLV).	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen.
TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV).	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen.
STEL	150ppm	USA. ACGIH Threshold Limit Values (TLV).	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen.

Component	CAS Number	EINECS Number
Ethyl benzene	100-41-4	202-849-4

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<b>Value</b>	<b>Control parameters</b>	<b>Basis</b>	<b>Remarks</b>
TWA	20.000000 ppm	USA. ACGIH Threshold Limit Values (TLV).	Cochlear impair Kidney damage (nephropathy) Upper Respiratory Tract irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section)  Confirmed animal carcinogen with unknown relevance to humans.
STEL	125.000000 ppm	USA. ACGIH Threshold Limit Values (TLV).	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans.
TWA	100.000000 ppm 435.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits	The value in mg/m <sup>3</sup> is approximate.
ST	125.000000 ppm 545.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits	The value in mg/m <sup>3</sup> is approximate.
TWA	100.000000 ppm 435.000000 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	The value in mg/m <sup>3</sup> is approximate.
TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)	Cochlear impair Kidney damage (nephropathy) Upper Respiratory Tract irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans.
TWA	100 ppm 435 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits	The value in mg/m <sup>3</sup> is approximate.
ST	125 ppm 545 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits	The value in mg/m <sup>3</sup> is approximate.
TWA	100 ppm 435 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	The value in mg/m <sup>3</sup> is approximate.
TWA	100 ppm 435 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	The value in mg/m <sup>3</sup> is approximate.

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ST	125 ppm 545 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	The value in mg/m <sup>3</sup> is approximate.
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#### Biological occupational exposure limits

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl benzene	TWA: 20 ppm	(Vacated) TWA: 100 ppm (Vacated) TWA: 435 mg/m <sup>3</sup> (Vacated) STEL: 125 ppm (Vacated) STEL: 545 mg/m <sup>3</sup> TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 125 ppm STEL: 545 mg/m <sup>3</sup>
Xylene	TWA: 100 ppm STEL: 150 ppm	(Vacated) TWA: 100 ppm (Vacated) TWA: mg/m <sup>3</sup> (Vacated) STEL: 150 ppm (Vacated) STEL: 655 mg/m <sup>3</sup> TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Ethyl benzene	TWA: 100 ppm TWA: 434 mg/m <sup>3</sup> STEL: 125 ppm STEL: 543 mg/m <sup>3</sup>	(TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 125 ppm STEL: 545 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 125 ppm STEL: 545 mg/m <sup>3</sup>
Xylene	TWA: 100 ppm TWA: 434 mg/m <sup>3</sup> STEL: 150 ppm STEL: 651 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 150 ppm STEL: 655 mg/m <sup>3</sup>	TWA: 20 ppm

- ❖ **ACGIH:** American Conference of Governmental Industrial Hygienists.
- ❖ **OSHA:** Occupational Safety and Health Administration.
- ❖ **NIOSH IDLH:** The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health.

### 8.2 Exposure Controls

- i. **Appropriate engineering controls:** Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

### 8.3 Personal protective equipment

- i. **Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- ii. **Skin protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
- iii. **Body Protection:** Wear appropriate protective clothing. Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous

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substance at the specific workplace.

- iv. **Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- v. **Control of environmental exposure:** Do not let product enter drains

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

#### **Information on basic physical and chemical properties**

<b>Appearance</b>	Colorless Liquid	<b>Vapor Pressure</b>	24 hPa (18 mmHg) at 37.70 °C
<b>Odor</b>	No Data Available	<b>Vapor Density</b>	3.67 - (Air = 1.0)
<b>Odor Threshold</b>	No Data Available	<b>Relative Density</b>	0.86 g/mL at 25 °C
<b>pH</b>	No Data Available	<b>Water Solubility</b>	No Data Available
<b>Melting / Freezing Point</b>	< 0 °C (< 32 °F)	<b>Partition Coefficient</b>	No Data Available
<b>Initial Boiling Point Range</b>	137 - 140 °C	<b>Auto-Ignition Temperature</b>	No Data Available
<b>Flash Point</b>	25 °C (77 °F)	<b>Decomposition Temperature</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available	<b>Viscosity</b>	No Data Available
<b>Flammability (Solid, Gas)</b>	No Data Available	<b>Explosive Properties</b>	No Data Available
<b>Upper / Lower Flammability Or Explosive Limits</b>	Upper explosion limit: 7 % (V) Lower explosion limit: 1.1 % (V)	<b>Oxidizing Properties</b>	No Data Available

### **SECTION 10 - STABILITY AND REACTIVITY**

**Stability:** Stable under recommended storage conditions.

**Hazardous Decomposition Products:** No Data Available.

**Hazardous Polymerization:** No Data Available.

**Incompatibilities:** strong oxidizing agent.

**Conditions to avoid:** Heat, flames and sparks.

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

#### **Acute Toxicity**

Component	LD50 Oral	LD50Dermal	LC50 inhalation
Ethyl benzene	3500 mg/kg ( Rat )	15400 mg/kg ( Rabbit )	17.2 mg/L ( Rat ) 4 h
Xylene	3500 mg/kg ( Rat )	4350 mg/kg ( Rabbit )	29.08 mg/L [MOE Risk Assessment Vol.1, 2002]

**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	IARC	ACGIH	OSHA
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Ethyl benzene	Group 2B	A3	Listed
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### **SECTION 12 - ECOLOGICAL INFORMATION**

**Eco Toxicity:** Do not empty into drains. The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Contains a substance which is toxic to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Xylene	Not Listed	LC50 96 h 3 0.26 - 40.75 mg/L LC50 96h 780 mg/L LC50 96 h 23.53- 29.97 mg/L LC50 96 h 7.711 - 9.591 mg/L LC50 96h 19 mg/L LC50 96 h 13.1 -16.5 mg/L LC50 96 h 13.5 -17.3 mg/L LC50 96 h 2.661 -4.093 mg/L LC50 96 h 13.4 mg/L	EC50 = 0.0084 mg/L 24 h	EC50 =48 h 0.6 mg/L LC50 = 48 h 3.82 mg/L
Ethyl benzene	EC50 96 h 2.6 - 11.3 mg/L EC50 72 h 438 mg/L EC50 > 96 h 4.6 mg/L EC50 = 72 h 1.7 - 7.6 mg/L	LC50 96 h 9.6 mg/L LC50 96 h 9.1 -15.6 mg/L LC50 96 h 32 mg/L LC50 96 h 7.55 - 11 mg/L LC50 96 h 4.2 mg/L LC50 96 h 11.0 - 18.0 mg/L	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	EC50 48 h 1.8 - 2.4 mg/L

**Persistence and degradability:** Insoluble in water Persistence is unlikely based on information available.

**Bioaccumulative potential:** No data available

**Results of PBT and vPvB assessment:** No data available

**Other adverse effects:** May be harmful to the aquatic environment.

**Mobility in soil:** is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility

Component	log Pow
Ethyl benzene	3.118
Xylene	3.15

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.



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<b>Component</b>	<b>RCRA - U Series Wastes</b>
Xylene	U239

**SECTION 14 - TRANSPORT INFORMATION**

	UN#	Proper Shipping Name	Hazard Class	Packaging Group
<b>DOT</b>	1307	XYLENES	3	III
<b>TDG</b>	1307	XYLENES	3	III
<b>IATA</b>	1307	XYLENES	3	III
<b>IMDG/IMO</b>	1307	XYLENES	3	III

**SECTION 15 - REGULATORY INFORMATION**

**INTERNATIONAL INVENTORIES**

<b>INGREDIENT: Xylene</b>				<b>CAS #: 1330-20-7</b>			<b>EINECS#: 215-535-7</b>		
<b>TSCA</b>	<b>DSL</b>	<b>NDSL</b>	<b>ELINCS</b>	<b>NLP</b>	<b>PICCS</b>	<b>ENCS</b>	<b>AICS</b>	<b>CHINA</b>	<b>KECL</b>
Listed	Listed	-	-	-	Listed	Listed	Listed	Listed	Listed

<b>INGREDIENT: Ethylbenzene</b>				<b>CAS #: 100-41-4</b>			<b>EINECS#: 202-849-4</b>		
<b>TSCA</b>	<b>DSL</b>	<b>NDSL</b>	<b>ELINCS</b>	<b>NLP</b>	<b>PICCS</b>	<b>ENCS</b>	<b>AICS</b>	<b>CHINA</b>	<b>KECL</b>
Listed	Listed	-	-	-	Listed	Listed	Listed	Listed	Listed

**USA FEDERAL REGULATION**

**SARA 311/312 HAZARDOUS CATEGORIZATION**

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release Of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	No	No

**TSCA 12(b)/ OSHA:** Not Applicable

**SARA 313**

Component	CAS#	Weight %	SARA 313 - Threshold Values %
Xylene	1330-20-7	>75.0	1.0
Ethyl benzene	100-41-4	<25.0	0.1

**Clean Water Act**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants

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Xylene	Listed	100 lb	-	-
Ethyl benzene	Listed	1000 lb	Listed	Listed

**Clean Air Act**

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Xylene	Listed	-	-
Ethyl benzene	Listed	-	-

**California Proposition 65:** This product contains the following Proposition 65 chemicals.

Component	CAS#	California Prop. 65	Prop 65 NSRL	Category
Ethyl benzene	100-41-4	Carcinogen	54 µg/day 41 µg/day	Carcinogen

**CERCLA:** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Xylene	100 lb	-
Ethyl benzene	1000 lb	-

**HMIS Rating**

Health hazard	Chronic Health Hazard	Flammability	Physical Hazard
<b>1</b>	<b>*</b>	<b>3</b>	<b>0</b>

**NFPA Rating**

Health Hazard	Fire Hazard	Reactivity Hazard
1	3	0

**STATE RIGHT TO KNOW**

Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Listed	Listed	Listed	Listed	Listed

**US DEPARTMENT OF TRANSPORTATION**

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT
<b>Yes</b>	<b>No</b>	<b>No</b>

**U.S. DEPARTMENT OF HOMELAND SECURITY:** This product does not contain any DHS chemicals.

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**This SDS complies with the requirements of Regulation (EC).**

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**SECTION 16 - OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Research Products International Corp. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. This product is sold for laboratory research and development purposes use only.