



1. Identification

Product identifier Xylene

Other means of identification

Product code LP1035

Synonyms Mixed Xylenes; Hydrocarbon solvent; C8 Aromatics; Xylene Isomers and ethylbenzene; Industrial-grade xylene; Solvent-grade Xylene; Xylene Feedstock; Para-Xylene Feed; 1,3-Dimethylbenzene; Meta-Xylene; M-Xylene.

Recommended use Raw material for use in the chemicals industry. Solvent.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Koch Supply & Trading, LP

Address P.O. Box 2302

Telephone General Assistance (8-5 M-F) 1-316-828-5601

E-mail kstmsds@kochind.com

Contact person KS&T Compliance

Emergency phone number CHEMTREC:
24 Hour Emergency 1-800-424-9300 (USA)
Telephone

2. Hazard(s) identification

Physical hazards Flammable liquids Category 3

Health hazards

Acute toxicity, dermal Category 4

Acute toxicity, inhalation Category 4

Skin corrosion/irritation Category 2

Germ cell mutagenicity Category 1

Carcinogenicity Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, repeated exposure Category 2 (central nervous system, kidneys, liver)

Aspiration hazard Category 1

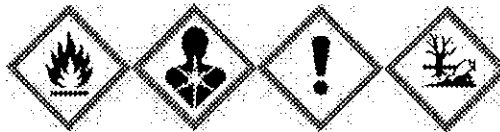
Environmental hazards

Hazardous to the aquatic environment, acute hazard Category 2

Hazardous to the aquatic environment, long-term hazard Category 2

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. Harmful if inhaled. May cause respiratory irritation. May cause genetic defects. May cause cancer. May cause damage to organs (central nervous system, kidneys, liver) through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see this label). Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Xylene, mixed isomers	1330-20-7	96 - 100
m-Xylene	108-38-3	0 - 100

Constituents

Chemical name	CAS number	%
Ethylbenzene	100-41-4	0 - 25
Toluene	108-88-3	0 - 0.5
Cumene	98-82-8	0 - 0.4
Benzene	71-43-2	0 - 0.2

Composition comments

Occupational Exposure Limits for constituents are listed in Section 8. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Values shown are typical and may vary. This Safety Data Sheet (SDS) is intended to communicate potential hazards associated with the substance or mixture; it should not be used as a commercial specification sheet. For commercial specification information, contact your Koch representative.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Abdominal pain. Decrease in motor functions. Behavioral changes. Narcosis. Dizziness. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Jaundice. Irritation of eyes and mucous membranes. Irritation of nose and throat. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Constituents	Type	Value
Benzene (CAS 71-43-2)	STEL	5 ppm
	TWA	1 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Type	Value
Xylene (CAS Mixture)	PEL	435 mg/m3
		100 ppm
Constituents	Type	Value
Cumene (CAS 98-82-8)	PEL	245 mg/m3
		50 ppm
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3
		100 ppm

US. OSHA Table Z-2 (29 CFR 1910.1000)

Constituents	Type	Value
Benzene (CAS 71-43-2)	Ceiling	25 ppm
	TWA	10 ppm
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

US. ACGIH Threshold Limit Values

Material	Type	Value
Xylene (CAS Mixture)	STEL	150 ppm
	TWA	100 ppm
Constituents	Type	Value
Benzene (CAS 71-43-2)	STEL	2.5 ppm
	TWA	0.5 ppm
Cumene (CAS 98-82-8)	TWA	50 ppm
Toluene (CAS 108-88-3)	TWA	20 ppm
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Constituents	Type	Value
Benzene (CAS 71-43-2)	STEL	1 ppm
	TWA	0.1 ppm
Cumene (CAS 98-82-8)	TWA	245 mg/m3
		50 ppm
Toluene (CAS 108-88-3)	STEL	560 mg/m3
	TWA	150 ppm
Ethylbenzene (CAS 100-41-4)	TWA	375 mg/m3
		100 ppm
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3
	TWA	125 ppm
		435 mg/m3
		100 ppm

Biological limit values

ACGIH Biological Exposure Indices

Material	Value	Determinant	Specimen	Sampling Time
Xylene (CAS Mixture)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

ACGIH Biological Exposure Indices

Constituents	Value	Determinant	Sampling Time
Benzene (CAS 71-43-2)	25 µg/g	S-Phenyl - mercapturic acid	*
	25 µg/g	S-Phenylmercapturic acid	Creatinine in urine *
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine *
	0.03 mg/l	Toluene	Urine *
	0.02 mg/l	Toluene	Blood *
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine *

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Benzene (CAS 71-43-2)	Can be absorbed through the skin.
Cumene (CAS 98-82-8)	Can be absorbed through the skin.
Toluene (CAS 108-88-3)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cumene (CAS 98-82-8)	Skin designation applies.
Toluene (CAS 108-88-3)	Skin designation applies.

US - Tennessee OELs: Skin designation

Cumene (CAS 98-82-8)	Can be absorbed through the skin.
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US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2)	Can be absorbed through the skin.
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US. NIOSH: Pocket Guide to Chemical Hazards

Cumene (CAS 98-82-8)	Can be absorbed through the skin.
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US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Cumene (CAS 98-82-8)	Can be absorbed through the skin.
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Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	Clear liquid.
Physical state	Liquid.
Form	Liquid.
Color	Clear.
Odor	Petroleum.
Odor threshold	1 ppm

Xylene

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SDS US

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pH	Not applicable. (<1% soluble in water)
Melting point/freezing point	-54 °F (-47.78 °C)
Initial boiling point and boiling range	277 - 293°F (136 - 145°C)
Flash point	81.0 - 90.0 °F (27.2 - 32.2 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	0.9 - 1.1%
Flammability limit - upper (%)	6.7 - 7.0%
Vapor pressure	6.6 - 6.9 mm Hg at 68°F (20°C)
Vapor density	3.7 (Air=1)
Relative density	0.865 - 0.875 (Water=1) at 60.8°F (16°C)
Solubility(ies)	
Solubility (water)	Negligible. (<1%)
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	810 °F (432.22 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	Not applicable.
Density	0.86 g/cm ³ at 68°F (20°C)
Flammability (Heat of combustion)	Not available.
Molecular formula	C ₈ H ₁₀
Molecular weight	106.16 g/mol
Percent volatile	100 %

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidizing agents. Halogens. Amines. Strong bases.
Hazardous decomposition products	Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterized.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.
Skin contact	Harmful in contact with skin. Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics	Abdominal pain. Behavioral changes. Decrease in motor functions. Narcosis. Dizziness. Nausea, vomiting. Jaundice. Aspiration may cause pulmonary edema and pneumonitis. Irritation of eyes and mucous membranes. Irritation of nose and throat. May cause respiratory irritation. Skin irritation. May cause redness and pain.
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Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Harmful if inhaled. Harmful in contact with skin. May cause respiratory irritation.

Product	Species	Test Results
Xylene (CAS Mixture)		
Acute		
<i>Oral</i>		
LD50	Rat	3523 - 8600 mg/kg

Constituents	Species	Test Results
Ethylbenzene (CAS 100-41-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Oral</i>		
LD50	Rat	5.46 g/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

- Benzene (CAS 71-43-2) 1 Carcinogenic to humans.
- Cumene (CAS 98-82-8) 2B Possibly carcinogenic to humans.
- Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.
- m-Xylene (CAS 108-38-3) 3 Not classifiable as to carcinogenicity to humans.
- Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.
- Xylene, mixed isomers (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

- Benzene (CAS 71-43-2) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

- Benzene (CAS 71-43-2) Cancer

Reproductive toxicity Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.

Specific target organ toxicity - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure May cause damage to organs (central nervous system, kidneys, liver) through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Product	Species	Test Results
Xylene		
Aquatic		
Fish	LC50	Rainbow trout (<i>Oncorhynchus mykiss</i>) 13.5 mg/l, 96 hours
Constituents	Species	Test Results
Ethylbenzene (CAS 100-41-4)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 1 - 4 mg/l, 48 hours

Constituents	Species	Test Results
Fish	LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss)	4 mg/l, 96 hours

Persistence and degradability Expected to be readily biodegradable.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Benzene (CAS 71-43-2)	2.13
Toluene (CAS 108-88-3)	2.73
Ethylbenzene (CAS 100-41-4)	3.15

Mobility in soil The product is insoluble in water. The product contains volatile substances, which may spread in the atmosphere.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number	UN1307
UN proper shipping name	Xylenes
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B1, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242

IATA

UN number	UN1307
UN proper shipping name	Xylenes
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Environmental hazards	No.
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1307
UN proper shipping name	XYLENES
Transport hazard class(es)	
Class	3
Subsidiary risk	-

Label(s) 3
Packing group III
Environmental hazards
Marine pollutant No.
EmS F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

General information Due to the possible variances of this material, the shipping classification must be evaluated at the time of shipment. Consult 49 CFR 171 – 180 for specific shipping information.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-43-2) Cancer
Central nervous system
Blood
Aspiration
Skin
Eye
respiratory tract irritation
Flammability

CERCLA Hazardous Substance List (40 CFR 302.4)

Benzene (CAS 71-43-2) LISTED
Cumene (CAS 98-82-8) LISTED
Ethylbenzene (CAS 100-41-4) LISTED
m-Xylene (CAS 108-38-3) LISTED
Toluene (CAS 108-88-3) LISTED
Xylene, mixed isomers (CAS 1330-20-7) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Xylene, mixed isomers	1330-20-7	96 - 100
m-Xylene	108-38-3	0 - 100
Ethylbenzene	100-41-4	0 - 25
Benzene	71-43-2	0 - 0.2

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Benzene (CAS 71-43-2)
Cumene (CAS 98-82-8)
Ethylbenzene (CAS 100-41-4)
m-Xylene (CAS 108-38-3)
Toluene (CAS 108-88-3)
Xylene, mixed isomers (CAS 1330-20-7)

16. Other information, including date of preparation or last revision

Issue date 20-January-2015

Revision date -

Version # 01

HMIS® ratings Health: 2*
Flammability: 3
Physical hazard: 0

Disclaimer

NOTICE: Safety Data Sheets (SDS) are periodically reviewed and updated. To ensure that you review the most current version of an SDS, please request an update from your employer or supplier. Adequate training and instruction should be provided by you to your employees and affected personnel. Appropriate warnings and safe handling procedures should be provided by you to handlers and users. The SDS does not list every conceivable risk or danger. This document lists risks and hazards that are generally recognized by the scientific community, applying generally-accepted scientific methods and information from sources believed to be reliable. The user should review this information, satisfy itself as to its suitability and completeness and pass on the information to its employees or customers in accordance with the applicable federal, state provincial or local hazard communication requirements. All conditions under which this information and the associated product, or the products of other manufacturers in combination with this product may be used cannot be anticipated. Vendor neither assumes nor retains any responsibility for any damage or injury resulting from abnormal use, from any failure to adhere to appropriate practices, or from any hazards inherent to the nature of the material. The standard version of this document has been drafted in English. If you are reading this document in a different language, it has been translated from English by a service provider believed to be reliable. Please notify us immediately if you have questions or concerns about this translation. This document was designed to comply with the requirements of a specific jurisdiction. Sellers of this product into other jurisdictions are responsible for ensuring compliance with applicable requirements.



