

Univar
3075 Highland Pkwy STE 200
Downers Grove, IL 60515
425-889-3400

SAFETY DATA SHEET

I. Identification

Product identifier: XYLENE

Other means of identification

Synonyms: Xylol

SDS number: 000100000103

Recommended use and restriction on use

Recommended use: Not available.

Restrictions on use: Not known.

Emergency telephone number: For emergency assistance involving chemicals

call CHEMTREC day or night at: 1-800-424-9300. CHEMTREC INTERNATIONAL Tel# 703-527-3887

II. Hazard(s) identification

Hazard classification

Physical hazards

Flammable liquids Category 3

Health hazards

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Carcinogenicity Category 2

Toxic to reproduction Category 2

Label elements

Hazard symbol



Version: 1.4
Revision date: 04/20/2015



Signal word	Warning
Hazard statement	Flammable liquid and vapor. May cause flash fire or explosion. Harmful or fatal if swallowed. Causes skin irritation. Causes eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Harmful to aquatic life.
Precautionary statement	
Prevention	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. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. 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 exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Take off contaminated

Version: 1.4
Revision date: 04/20/2015

clothing and wash before reuse. In case of fire: Use ... to extinguish.

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

Disposal Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

I. Composition/information on ingredients

Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
Xylene		1330-20-7	100%
Ethylbenzene		100-41-4	30%
Toluene		108-88-3	1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments: The components are not hazardous or are below required disclosure limits.

I. First-aid measures

Version: 1.4
Revision date: 04/20/2015

General information: CAUTION! First aid personnel must be aware of own risk during rescue!

Ingestion: Never give liquid to an unconscious person.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped.

Skin contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Eye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General fire hazards: No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use: Carbon dioxide or dry powder. Foam. Inert gas. Water fog. Do not use water jet as an extinguisher, as this will spread the fire.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: No data available.

Special protective equipment and precautions for firefighters

Version: 1.4
Revision date: 04/20/2015

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: No data available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: No data available.

Methods and material for containment and cleaning up: All equipment used when handling the product must be grounded. Eliminate sources of ignition. Absorb spillage with non-combustible, absorbent material. Prevent runoff from entering drains, sewers, or streams.

7. Handling and storage

Precautions for safe handling: Flammable/combustible - Keep away from oxidizers, heat and flames. Use only with adequate ventilation. Avoid breathing mists or vapors.

Conditions for safe storage, including any incompatibilities: No data available.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Chemical identity	Type	Exposure Limit values	Source
Xylene	STEL	150 ppm	US. ACGIH Threshold Limit Values (03 2013)
	TWA	100 ppm	US. ACGIH Threshold Limit Values (03 2013)

Version: 1.4
Revision date: 04/20/2015

	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	150 ppm	655 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	435 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	150 ppm	655 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		180 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL		350 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)

Version: 1.4
Revision date: 04/20/2015

	ST ESL	80 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	42 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	100 ppm 435 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	Ceiling	300 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	150 ppm 655 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
Ethylbenzene	TWA	20 ppm	US. ACGIH Threshold Limit Values (03 2013)
	STEL	125 ppm 545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	100 ppm 435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	100 ppm 435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	100 ppm 435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	125 ppm 545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm 435 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)

Version: 1.4
Revision date: 04/20/2015

	STEL	125 ppm	545 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		570 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL		740 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL		170 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL		135 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	100 ppm	435 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	125 ppm	545 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
Toluene	TWA	20 ppm		US. ACGIH Threshold Limit Values (03 2013)
	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Version: 1.4
Revision date: 04/20/2015

	Ceiling	300 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	200 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	500 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	100 ppm 375 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	150 ppm 580 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL	1,200 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	3,470 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	920 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	330 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	Ceiling	500 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	TWA PEL	10 ppm 37 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	150 ppm 560 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne

Version: 1.4
Revision date: 04/20/2015



			Contaminants (02 2012)
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Biological limit values

Chemical Identity	Exposure Limit values	Source
Xylene (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEL (03 2013)
Ethylbenzene (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift at end of work week.)	0.7 g/g (Creatinine in urine)	ACGIH BEL (03 2013)
Toluene (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Toluene (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL (03 2013)
Toluene (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL (03 2013)

Appropriate engineering controls No data available.

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: No data available.

Version: 1.4
Revision date: 04/20/2015**Skin protection****Hand protection:** No data available.**Other:** No data available.**Respiratory protection:** No data available.**Hygiene measures:** No data available.**I. Physical and chemical properties**

Appearance	Physical state:	Liquid
Form:		No data available.
Color:		Colorless
Odor:		Sweetish, Pungent
Odor threshold:		No data available.
pH:		No data available.
Melting point/freezing point:		-54 - -13 °F
Initial boiling point and boiling range:		137 - 142 °C
Flash Point:		27 °C
Evaporation rate:		No data available.
Flammability (solid, gas):		No data available.
Upper/lower limit on flammability or explosive limits		
	Flammability limit - upper (%):	No data available.
	Flammability limit - lower (%):	No data available.
	Explosive limit - upper (%):	No data available.
	Explosive limit - lower (%):	No data available.
Vapor pressure:		No data available.
Vapor density:		No data available.
Relative density:		No data available.
Solubility(ies)		
	Solubility in water:	No data available.

Version: 1.4
Revision date: 04/20/2015



Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical stability:	No data available.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible materials:	No data available.
Hazardous decomposition products:	No data available.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:	No data available.
Inhalation:	No data available.
Skin contact:	No data available.
Eye contact:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:	LD 50 (Rat): 4,300 mg/kg
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Version: 1.4
Revision date: 04/20/2015



Dermal

Product: LD 50 (Rabbit): 14,100 mg/kg
Not classified for acute toxicity based on available data.

Inhalation

Product: LC 50 (Rat, 4 h): 4,544 mg/l

Repeated dose toxicity

Product: No data available.

Skin corrosion/irritation

Product: No data available.

Serious eye damage/eye irritation

Product: No data available.

Specified substance(s):

Ethylbenzene Exposure to 21.5 g/m³ (5000 ppm) ethylbenzene for a few seconds gives intolerable irritation of nose, eyes, and throat
Exposure to a concentration of 5000 ppm causes intolerable irritation of the eyes
Concentration of 200 ppm causes irritation of eyes

Respiratory or skin sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

Version: 1.4
Revision date: 04/20/2015



IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Ethylbenzene Overall evaluation: 2B. Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

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

No carcinogenic components identified

Germ cell mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific target organ toxicity - single exposure

Product: No data available.

Specific target organ toxicity - repeated exposure

Product: No data available.

Aspiration hazard

Product: No data available.

Other effects: No data available.

Version: 1.4
Revision date: 04/20/2015**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:****Fish****Product:** No data available.**Specified substance(s):****Toluene** LC 50 (Rainbow trout, donaldson trout (*Oncorhynchus mykiss*), 24 h): 6.26 - 8.4 mg/l Mortality LC 50 (Pink salmon (*Oncorhynchus gorbuscha*), 24 h): 6.97 - 8.62 mg/l Mortality LC 50 (Pink salmon (*Oncorhynchus gorbuscha*), 24 h): 7.45 - 8.75 mg/l Mortality LC 50 (Medaka, high-eyes (*Oryzias latipes*), 24 h): 80 mg/l Mortality LC 50 (Zebra danio (*Danio rerio*), 24 h): > 100 mg/l Mortality**Aquatic invertebrates****Product:** No data available.**Specified substance(s):****Toluene** LC 50 (Water flea (*Daphnia magna*), 24 h): 240 - 420 mg/l Mortality LC 50 (Brine shrimp (*Artemia salina*), 24 h): 33 mg/l Mortality LC 50 (Water flea (*Daphnia magna*), 24 h): 470 mg/l Mortality LC 50 (Brine shrimp (*Artemia* sp.), 24 h): 42.8 - 63.8 mg/l Mortality LC 50 (Rotifer (*Brachionus plicatilis*), 24 h): 519.5 - 585.7 mg/l Mortality**Chronic hazards to the aquatic environment:****Fish****Product:** No data available.**Aquatic invertebrates****Product:** No data available.**Toxicity to Aquatic Plants**

Version: 1.4
Revision date: 04/20/2015



Product: No data available.

Persistence and degradability

Biodegradation

Product: No data available.

BOD/COD ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration factor (BCF)

Product: No data available.

Specified substance(s):

Toluene

Green algae (*Chlorella fusca*), Bioconcentration factor (BCF): 380 (Not reported)

Green algae (*Selenastrum capricornutum*), Bioconcentration factor (BCF): 3,016 (Static)

Green algae (*Chlorella fusca vacuolata*), Bioconcentration factor (BCF): 380 (Static)

Shore crab (*Hemigrapsus nudus*), Bioconcentration factor (BCF): 31 (Flow through)

Idle, silver or golden orfe (*Leuciscus idus*), Bioconcentration factor (BCF): 94 (Not reported)

Partition coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Xylene

Log Kow: 3.12 - 3.20

Version: 1.4
Revision date: 04/20/2015

Ethylbenzene Log Kow: 3.15

Toluene Log Kow: 2.73

Mobility in soil: No data available.**Known or predicted distribution to environmental compartments**

Xylene No data available.

Ethylbenzene No data available.

Toluene No data available.

3. Disposal considerations**Disposal instructions:** No data available.**Contaminated packaging:** No data available.**4. Transport information****DOT**

UN number: UN 1307

UN proper shipping name: Xylenes

Transport hazard class(es)

Class: 3

Label(s): 3

Packing group: III

Marine Pollutant: Not regulated.

Version: 1.4
Revision date: 04/20/2015



Special precautions for user: -

IMDG

UN number: UN 1307
UN proper shipping name: XYLENES
Transport hazard class(es)
Class: 3
Label(s): 3
EmS No.: F-E, S-D
Packing group: III
Marine Pollutant: Not regulated.
Special precautions for user: -

IATA

UN number: UN 1307
Proper Shipping Name: Xylenes
Transport hazard class(es):
Class: 3
Label(s): 3
Packing group: III
Environmental hazards: Not regulated.
Special precautions for user: -

Other information

Version: 1.4
Revision date: 04/20/2015



Passenger and cargo aircraft: Allowed.

Cargo aircraft only: Allowed.

5. Regulatory information

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

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Xylene	Reportable quantity: 100 lbs.
Ethylbenzene	Reportable quantity: 1000 lbs.
Toluene	Reportable quantity: 1000 lbs.

Superfund amendments and reauthorization act of 1986 (SARA)

Hazard categories

Not listed.

Version: 1.4
Revision date: 04/20/2015**SARA 302 Extremely hazardous substance**

None present or none present in regulated quantities.

SARA 304 Emergency release notification

Chemical identity	RQ
Xylene	100 lbs.
Ethylbenzene	1000 lbs.
Toluene	1000 lbs.

SARA 311/312 Hazardous chemical

Chemical identity	Threshold Planning Quantity
Xylene	500 lbs
Ethylbenzene	500 lbs
Toluene	500 lbs

SARA 313 (TRI reporting)

Chemical identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Xylene	10000 lbs	25000 lbs.
Ethylbenzene	10000 lbs	25000 lbs.
Toluene	10000 lbs	25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Xylene	Reportable quantity: 100 lbs.
Ethylbenzene	Reportable quantity: 1000 lbs.
Toluene	Reportable quantity: 1000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Version: 1.4
Revision date: 04/20/2015



None present or none present in regulated quantities.

US state regulations

US. California Proposition 65

WARNING: This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Ethylbenzene	Carcinogenic.
Toluene	Developmental toxin.
Toluene	Female reproductive toxin.

US. New Jersey Worker and Community Right-to-Know Act

Xylene	Listed
Ethylbenzene	Listed

US. Massachusetts RTK - Substance List

Xylene	Listed
Ethylbenzene	Listed

US. Pennsylvania RTK - Hazardous Substances

Xylene	Listed
Ethylbenzene	Listed

US. Rhode Island RTK

Xylene	Listed
Ethylbenzene	Listed

Version: 1.4
Revision date: 04/20/2015



Inventory Status: Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
EU EINECS List:	Not in compliance with the inventory.
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

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

HMIS Hazard ID

Health	*	3
		3
PERSONAL PROTECTION		K

K - Hood, Gloves, Protective Suit & Boots

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health

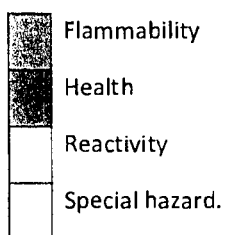
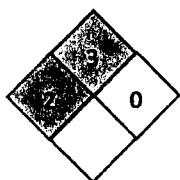
Version: 1.4
Revision date: 04/20/2015



effect

Further information: Classification not possible. Consult the Supplier in Section 1 of the SDS for additional data.

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue date: 04/20/2015
Revision date: No data available.
Version #: 1.4
Further information: No data available.