

## SAFETY DATA SHEET

Creation Date 12-Feb-2010

Revision Date 24-Dec-2021

**Revision Number** 8

1. Identification

Product Name	Xylenes, mixed isomers with ethylbenzene (Flash Point 26.1¦C / 79¦F; PG III)
Cat No. :	X3-F1GAL; X3P-1GAL; X3RB50; X3S-4; X3S-20; X3S-200
Synonyms	Xylol; Methyltoluene; Dimethylbenzene; (Histological/Laboratory/Certified ACS/Scintanalyzed)
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.

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

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

**Emergency Telephone Number** 

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

### 2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure	
Target Organs - Respiratory system, Central	nervous system (CNS).
Specific target organ toxicity - (repeated expo	sure) Category 2
Target Organs - Kidney, Liver, Blood.	
Aspiration Toxicity	Category 1

Label Elements

#### Signal Word Danger

Danger

#### **Hazard Statements**

Flammable liquid and vapor Harmful if inhaled May be fatal if swallowed and enters airways Harmful in contact with skin Causes skin irritation Causes serious eye irritation May cause respiratory irritation Suspected of causing cancer May cause damage to organs through prolonged or repeated exposure



#### Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Use only outdoors or in a well-ventilated area Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray 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 Keep cool Response IF exposed or concerned: Get medical attention/advice Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin If skin irritation occurs: Get medical advice/attention Call a POISON CENTER or doctor/physician if you feel unwell IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eves 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 Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant <u>Hazards not otherwise classified (HNOC)</u> Harmful to aquatic life with long lasting effects WARNING. Cancer - https://www.p65warnings.ca.gov/.

### 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Xylenes (o-, m-, p- isomers)	1330-20-7	96
Ethylbenzene	100-41-4	4

	4. First-aid measures
General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.
Inhalation	Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects Notes to Physician	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	Water may be ineffective
Flash Point	25.6 - 32.2 °C / 78.1 - 90 °F
Method -	No information available
Autoignition Temperature	527 °C / 980.6 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	

#### Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air. Thermal decomposition can lead to release of irritating gases and vapors.

#### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Aldehydes. Hydrocarbons. **Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 3	Flammability 3	<b>Instability</b> 0	Physical hazards N/A		
	6. Accidental re	lease measures			
Personal Precautions			dequate ventilation. Remove all		
Environmental Precautions	Should not be released into sewer system. See Section	sources of ignition. Take precautionary measures against static discharges. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage.			
Methods for Containment and Up	<b>hods for Containment and Clean</b> Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Soal up with inert absorbent material. Keep in suitable, closed containers for disposal. Take precautionary measures against static discharges.				
	7. Handling	and storage			
Handling	Do not get in eyes, on skin open flames, hot surfaces	, or on clothing. Avoid ingestion and sources of ignition. Use on	otective equipment/face protection. In and inhalation. Keep away from Inly non-sparking tools. Use recautionary measures against		
Storage.		sed in a dry, cool and well-vent ammables area. Incompatible I			

#### 8. Exposure controls / personal protection

#### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm	(Vacated) TWA: 100 ppm		TWA: 100 ppm
	STEL: 150 ppm	(Vacated) TWA: 435 mg/m <sup>3</sup>		STEL: 150 ppm
		(Vacated) STEL: 150 ppm		
		(Vacated) STEL: 655 mg/m <sup>3</sup>		
		TWA: 100 ppm		
		TWA: 435 mg/m <sup>3</sup>		
Ethylbenzene	TWA: 20 ppm	(Vacated) TWA: 100 ppm	IDLH: 800 ppm	TWA: 20 ppm
		(Vacated) TWA: 435 mg/m <sup>3</sup>	TWA: 100 ppm	
		(Vacated) STEL: 125 ppm	TWA: 435 mg/m <sup>3</sup>	
		(Vacated) STEL: 545 mg/m <sup>3</sup>	STEL: 125 ppm	
		TWA: 100 ppm	STEL: 545 mg/m <sup>3</sup>	
		TWA: 435 mg/m <sup>3</sup>	_	

#### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

#### Engineering Measures

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face 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.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
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 EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Personal Protective Equipment

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties				
Physical State	Liquid			
Appearance	Clear			
Odor	aromatic			
Odor Threshold	No information available			
рН	Not applicable			
Melting Point/Range	-34 °C / -29.2 °F			
Boiling Point/Range	136 - 140 °C / 276.8 - 284 °F			
Flash Point	25.6 - 32.2 °C / 78.1 - 90 °F			
Evaporation Rate	0.7 (Butyl Acetate = $1.0$ )			
Flammability (solid,gas)	Not applicable			
Flammability or explosive limits				
Upper	7.0 vol %			
Lower	1.1 vol %			
Vapor Pressure	8.29 mmHg @ 25 °C			
Vapor Density	3.66 (Air = 1.0)			
Specific Gravity	0.865 (H2O=1)			
Solubility	Insoluble in water			
Partition coefficient; n-octanol/water	No data available			
Autoignition Temperature	527 °C / 980.6 °F			
Decomposition Temperature	No information available			
Viscosity	No information available			
Molecular Formula	C8H10			
Molecular Weight	106.17			
10	Ctability and repativity			

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.			
Incompatible Materials	Strong oxidizing agents, Strong acids			
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Aldehydes, Hydrocarbons				
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			
	11. Toxicological information			

#### Acute Toxicity

Dermal LD50 Category 4. ATE = 100 - 200 mg/kg. Category 4. ATE = 10 - 20 mg/l.   Component Information LD50 Dermal LD50 Dermal LC50 Inhalation   Vapor LC50 Category 4. ATE = 10 - 20 mg/l.   Component Information LD50 Dermal LD50 Dermal LC50 Inhalation   Vapor LC50 Stategory 4. ATE = 10 - 20 mg/l. LD50 Dermal LC50 Inhalation   Vapor LC50 Stategory 4. ATE = 10 - 20 mg/l. LD50 Dermal LC50 Inhalation   Vapor LC50 Stategory 4. ATE = 10 - 20 mg/l. LD50 Dermal LC50 Inhalation   Vapor LC50 Stategory 4. ATE = 10 - 20 mg/l. Valor 2008 mg/l. (Rabbit) 17.2 mg/l. (Rat) 4 h   Toxicologically Synergistic No information available Not information available Toxicologically Synergistic No information available   Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinoger Not listed Not listed Not listed   Vapor LC6X The table below indicates whether each agency has listed any ingredient as a carcinoger Not listed Not listed Not listed   Component CAS No LARC NTP ACGH Not listed Not listed Not listed   Comp	Product Informatior Oral LD50	ı	Based on ATE (	tata the cla	ssificatio	n criteria are not m	at ΔTE > 2000 m	a/ka
Vapor LC50 Category 4. ATE = 10 - 20 mg/l.   Component Information LD50 Oral LD50 Permal 20.00 mg/kg (Rabbit)   Xylenes (or, m. p. isomens) LD50 = 3500 mg/kg (Rat) LD50 > 4350 mg/kg (Rabbit) 29.00 mg/L (Rat) 4 h   Toxicologically Synergistic No information available 15400 mg/kg (Rabbit) 17.2 mg/L (Rat) 4 h   Toxicologically Synergistic No information available Initiating to eyes, respiratory system and skin   Sensitization No information available   Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinoger   Xylenes (o., m. p. 130-20-7 Not listed Not listed Not listed   Xylenes (o., m. p. 130-20-7 Not listed Not listed Not listed Not listed   Xylenes (o., m. p. 130-20-7 Int listed Not listed Not listed Not listed Not listed   Valence (o., m. p. 130-20-7 Int listed Not listed Not listed Not listed Not listed Not listed   Zylenes (o., m. p. 130-20-7 Int listed Not listed Not listed Not listed Not listed Not listed   Zylenes (Co, m. p. 130-20-7 Int listed Not listed			Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Category 4 ATE = $1000 - 2000$ mg/kg					
Component   Information     Xylenes (or, m., p. isomers)   LD50 oral   LD50 Permat   20.08 mg/L [MOE Risk Assessm Vol.1, 2002]     Ethylbenzene   3500 mg/kg (Rat)   15400 mg/kg (Rabbit)   29.08 mg/L [MOE Risk Assessm Vol.1, 2002]     Toxicologically Synergistic Products   No information available   15400 mg/kg (Rabbit)   17.2 mg/L (Rat) 4 h     Toxicologically Synergistic Products   No information available   15400 mg/kg (Rabbit)   17.2 mg/L (Rat) 4 h     Toxicologically Synergistic Products   No information available   15400 mg/kg (Rabbit)   17.2 mg/L (Rat) 4 h     Tritation   Irritating to eyes, respiratory system and skin   Sensitization   No information available     Component   CAS No   IARC   NTP   ACGIH   OSHA   Mexico     Typenes (or, m., p.   1330-20-7   Not listed						.9.		
Xylenes (o-, m-, p- isomers)   LD50 = 3500 mg/kg (Rat)   LD50 > 4350 mg/kg (Rabbit)   29.08 mg/L [MOE Risk Assessme Vol 1, 2002]     Ethylbenzene   3500 mg/kg (Rat)   15400 mg/kg (Rabbit)   17.2 mg/L (Rat) 4 h     Toxicologically Synergistic Products   No information available   17.2 mg/L (Rat) 4 h     Trittation   Irritating to eyes, respiratory system and skin     Sensitization   No information available     Carcinogenicity   The table below indicates whether each agency has listed any ingredient as a carcinoger     Component   CAS No   IARC   NTP   ACGIH   Not listed   Not listed   Not listed     Vienes (o-, m-, p-   1330-20-7   Not listed   A3     IARC (International Agency for Research on Cancer)   Group 24 - Probably Carcinogenic to Humans Group 24 - Suspecidel Human Carcinogen A2 - Suspecidel Human Carcinogen A3	-	ation			3			
Ethylbenzene   3500 mg/kg (Rat)   15400 mg/kg (Rabbit)   17.2 mg/L (Rat) 4 h     Toxicologically Synergistic Products   No information available   17.2 mg/L (Rat) 4 h     Delayed and immediate effects as well as chronic effects from short and long-term exposure.   Irritation   Irritating to eyes, respiratory system and skin     Sensitization   No information available   Carcinogenicity   The table below indicates whether each agency has listed any ingredient as a carcinogen     Xylenes (r, m; p: 1330-20-7   Not listed   Not listed   Not listed     Yalenes (r, m; p: 1330-20-7   Not listed   Not listed   Not listed     Lithylbenzene   100-41-4   Group 2B   Not listed   Not listed     Lithylbenzene   100-41-4   Group 2B   Not listed   A3   x     ACGIH: (American Conference of Governmental Industrial Hygienists)   A7   No information available   A2     Mutagenic Effects   No information available   A2   A2   A3   A1     ACGIH: (American Conference of Governmental Industrial Hygienists)   A2   Suspected Human Carcinogen A2   Airaid Carcinogen A2   Airaid Carcinogen A2   Airaid Carcinogen A2   Airaid Carcin			LD50 Oral			LD50 Dermal	LC50	Inhalation
Toxicologically Synergistic No information available   Products Delayed and immediate effects as well as chronic effects from short and long-term exposure   Irritation Irritating to eyes, respiratory system and skin   Sensitization No information available   Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen   Xylenes (o.m., p. 1330-20-7 Not listed Not listed Not listed   isomers) 100-41-4 Group 2B Not listed Not listed Not listed   IARC (International Agency for Research on Cancer) IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans Group 2B - Possibly Carcinogene to Humans A1 - Known Human Carcinogen   ACGIH: (American Conference of Governmental Industrial A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen   A2 - Suspected Human Carcinogen A2 - Suspected Human Carcinogen   A2 - Suspected Human Carcinogen A2 - Suspected Humans Carcinogen   A2 - Suspected Human Carcinogen A2 - Suspected Humans Carcinogen   A2 - Suspected Human Carcinogen A2 - Suspected Humans Carcinogen   A2 - Suspected Human Carcinogen A2 - Suspected Humans Carcinogen   A2 - Suspected Human Carcinogen A2 - Animal Carcinogen	Xylenes (o-, m-, p-	LD50 = 3500 mg/kg	.D50 = 3500 mg/kg (Rat)		0.0.	Vo	l.1, 2002]	
Products Delayed and immediate effects as well as chronic effects from short and long-term exposure.   Irritation Irritating to eyes, respiratory system and skin   Sensitization No information available   Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinoger <b>Component CAS No IARC NTP ACGIH OSHA Mexico</b> Xylenes (o-, m-, p-   1330-20-7 <b>Not</b> listed <b>No</b> information available <b>Respirato</b>					1540	0 mg/kg (Rabbit)	17.2 m	g/L(Rat)4 h
Sensitization No information available   Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinoger   Xigness (or, m, p) 1330-20-7 Not listed <th< th=""><th>Products</th><th>-</th><th></th><th></th><th>short an</th><th>id long-term expo</th><th>sure_</th><th></th></th<>	Products	-			short an	id long-term expo	sure_	
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen   Camponent CAS No IARC NTP ACGIH OSHA Mexico   Xylenes (or, mr, p. 130-20-7 Not listed Addited Addited Not listed Addited Not listed Addited Not listed Addited Not	Irritation		Irritating to eyes	, respiratory	v system	and skin		
Component CAS No IARC NTP ACGIH OSHA Mexico   Xylenes (o., m., p. 1330-20-7 Not listed A3 X A3 <th>Sensitization</th> <th></th> <th>No information a</th> <th>available</th> <th></th> <th></th> <th></th> <th></th>	Sensitization		No information a	available				
Xylenes (or., m., p. isomers) 1330-20-7 Not listed A3 x A3   IARC (International Agency for Research on Cancer) IARC (International Agency for Research on Cancer) IARC (International Agency for Research on Cancer) Group 2A Probably Carcinogenic to Humans   Group 2A - Probably Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans   ACGIH: (American Conference of Governmental Industrial A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen   Mutagenic Effects No information available No information available   Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.   Developmental Effects Developmental effects have occurred in experimental animals.   STOT - single exposure Respiratory system Central nervous system (CNS)   STOT - repeated exposure Kidney Liver Blood   Aspiration hazard No information available   Symptoms / effects,both acute	Carcinogenicity		The table below	indicates w	hether ea	ach agency has list	ed any ingredient	as a carcinogen.
isomers) Image: Constraint of the second	Component	CAS N	o IARC		ſP	ACGIH	OSHA	Mexico
IARC (International Agency for Research on Cancer) IARC (International Agency for Research on Cancer)   Group 1 - Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans   ACGIH: (American Conference of Governmental Industrial Hygienists) A1 - Known Human Carcinogen   Autagenic Effects No information available   Reproductive Effects Experimental effects have occurred in experimental animals.   Developmental Effects Developmental effects have occurred in experimental animals.   STOT - single exposure Respiratory system Central nervous system (CNS)   STOT - repeated exposure Kidney Liver Blood   Aspiration hazard No information available   Symptoms / effects,both acute and gymptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting delayed   Endocrine Disruptor Information No information available		1330-20	-7 Not listed	Not I	isted	Not listed	Not listed	Not listed
ACGIH: (American Conference of Governmental Industrial Hygienists)Group 2A - Probably Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans Al - Known Human Carcinogen A3 - Animal Carcinogen AGGIH: (American Conference of Governmental Industrial A2 - Suspected Human Carcinogen AGGIH: (American Conference of Governmental Industrial Hygienists)Mutagenic EffectsNo information availableReproductive EffectsExperiments have shown reproductive toxicity effects on laboratory animals.Developmental EffectsDevelopmental effects have occurred in experimental animals.TeratogenicityTeratogenic effects have occurred in experimental animals.STOT - single exposure STOT - repeated exposureRespiratory system Central nervous system (CNS) Kidney Liver BloodAspiration hazardNo information availableSymptoms / effects,both acute and delayedSymptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting to information available								
Developmental EffectsDevelopmental effects have occurred in experimental animals.TeratogenicityTeratogenic effects have occurred in experimental animals.STOT - single exposure STOT - repeated exposureRespiratory system Central nervous system (CNS) Kidney Liver BloodAspiration hazardNo information availableSymptoms / effects,both acute and delayedSymptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting No information availableEndocrine Disruptor InformationNo information available	Hygienists)	n Conference		strial A A A A	1 - Known 2 - Suspe 3 - Anima	h Human Carcinogen cted Human Carcinog I Carcinogen	ien	dustrial Hygienists)
TeratogenicityTeratogenic effects have occurred in experimental animals.STOT - single exposure STOT - repeated exposureRespiratory system Central nervous system (CNS) Kidney Liver BloodAspiration hazardNo information availableSymptoms / effects,both acute and delayedSymptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting No information availableEndocrine Disruptor InformationNo information available	<b>Reproductive Effects</b> Experiments have shown reproductive toxicity effects on laboratory animals.			als.				
STOT - single exposure STOT - repeated exposureRespiratory system Central nervous system (CNS) Kidney Liver BloodAspiration hazardNo information availableSymptoms / effects,both acute and delayedSymptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting No information availableEndocrine Disruptor InformationNo information available	Developmental Effe	Developmental	Developmental effects have occurred in experimental animals.					
STOT - repeated exposureKidney Liver BloodAspiration hazardNo information availableSymptoms / effects,both acute and delayedSymptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting No information availableEndocrine Disruptor InformationNo information available	Teratogenicity   Teratogenic effects have occurred in experimental animals.							
Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting delayed   Endocrine Disruptor Information No information available								
delayed   Endocrine Disruptor Information No information available	Aspiration hazard No information available							
•				sea and vomiting				
Other Adverse Effects See actual entry in RTECS for complete information	Endocrine Disruptor Information No information available							
	Other Adverse Effects   See actual entry in RTECS for complete information.							

### 12. Ecological information

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Contains a substance which is:. Toxic to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Xylenes (o-, m-, p- isomers)	Not listed	LC50: 30.26 - 40.75 mg/L,	EC50 = 0.0084 mg/L 24 h	LC50: = 0.6 mg/L, 48h
		96h static (Poecilia	-	(Gammarus lacustris)

	-			
		reticulata)		EC50: = 3.82 mg/L, 48h
		LC50: = 780 mg/L, 96h		(water flea)
		semi-static (Cyprinus carpio)		
		LC50: 23.53 - 29.97 mg/L,		
		96h static (Pimephales		
		promelas)		
		LC50: > 780 mg/L, 96h		
		(Cyprinus carpio)		
		LC50: 7.711 - 9.591 mg/L,		
		96h static (Lepomis		
		macrochirus)		
		LC50: = 19 mg/L, 96h		
		(Lepomis macrochirus)		
		LC50: 13.1 - 16.5 mg/L, 96h		
		flow-through (Lepomis		
		macrochirus)		
		LC50: 13.5 - 17.3 mg/L, 96h		
		(Oncorhynchus mykiss)		
		LC50: 2.661 - 4.093 mg/L,		
		96h static (Oncorhynchus		
		mykiss)		
		LC50: = 13.4 mg/L, 96h		
		flow-through (Pimephales		
		promelas)		
		p.e		
Ethylbenzene	EC50: 2.6 - 11.3 mg/L, 72h	LC50: 7.55 - 11 mg/L, 96h	EC50 = 9.68 mg/L 30 min	EC50: 1.8 - 2.4 mg/L, 48h
,	static (Pseudokirchneriella	flow-through (Pimephales	EC50 = 96  mg/L  24  h	(Daphnia magna)
	subcapitata)	promelas)		( <u>_</u> apaag.(a)
		LC50: 11.0 - 18.0 mg/L, 96h		
	static (Pseudokirchneriella	static (Oncorhynchus		
	subcapitata)	mykiss)		
	EC50: > 438 mg/L, 96h	LC50: = 4.2  mg/L, 96h		
	(Pseudokirchneriella	semi-static (Oncorhynchus		
	subcapitata)	mykiss)		
	EC50: = $4.6 \text{ mg/L}$ , 72h	LC50: = 32 mg/L, 96h static		
	(Pseudokirchneriella	(Lepomis macrochirus)		
	subcapitata)	LC50: 9.1 - 15.6 mg/L, 96h		
	Subcapitata)			
		static (Pimephales		
		promelas)		
		LC50: = 9.6 mg/L, 96h static		
		(Poecilia reticulata)		

Persistence and Degradability Persistence is unlikely

**Bioaccumulation/ Accumulation** No information available.

Mobility

Component	log Pow
Xylenes (o-, m-, p- isomers)	3.15
Ethylbenzene	3.2

### 13. Disposal considerations

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Waste Disposal Methods
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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

s RCRA - P Series Wastes
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14. Transport information

DOT UN-No

UN1307

Proper Shipping Name Hazard Class Packing Group	XYLENES 3 III
TDG	
UN-No	UN1307
Proper Shipping Name	XYLENES
Hazard Class	3
Packing Group	
IATA	
UN-No	UN1307
Proper Shipping Name	XYLENES
Hazard Class	3
Packing Group	
IMDG/IMO	
UN-No	UN1307
Proper Shipping Name	XYLENES
Hazard Class	3
Packing Group	
	15. Regulatory information

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Xylenes (o-, m-, p- isomers)	1330-20-7	Х	ACTIVE	-
Ethylbenzene	100-41-4	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Xylenes (o-, m-, p- isomers)	1330-20-7	Х	-	215-535-7	Х	Х	Х	Х	Х	KE-35427
Ethylbenzene	100-41-4	Х	-	202-849-4	Х	Х	Х	Х	Х	KE-13532

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Xylenes (o-, m-, p- isomers)	1330-20-7	96	1.0
Ethylbenzene	100-41-4	4	0.1

#### SARA 311/312 Hazard Categories See section 2 for more information

#### **CWA (Clean Water Act)**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Xylenes (o-, m-, p- isomers)	Х	100 lb	-	-

Ethylbenzene	Х	1000 lb	Х	Х

#### **Clean Air Act**

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Xylenes (o-, m-, p- isomers)	Х		-
Ethylbenzene	Х		-

**OSHA** - Occupational Safety and Not applicable Health Administration

#### 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
Xylenes (o-, m-, p- isomers)	100 lb	-
Ethylbenzene	1000 lb	-

**California Proposition 65** 

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Ethylbenzene	100-41-4	Carcinogen	54 µg/day 41 µg/day	Carcinogen
LLC Clate Discht to Know				

#### U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Xylenes (o-, m-, p-	Х	Х	Х	Х	Х
isomers)					
Ethylbenzene	Х	Х	Х	Х	Х

#### U.S. Department of Transportation

Reportable Quantity (RQ):	Υ
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland This product does not contain any DHS chemicals. Security

#### Other International Regulations

Mexico - Grade Serious risk, Grade 3

#### Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	<b>U</b> (
Xylenes (o-, m-, p- isomers)	-	Use restricted. See item 75.	-
		(see link for restriction details)	

https://echa.europa.eu/substances-restricted-under-reach

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

	Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Xyl	enes (o-, m-, p- isomers)	1330-20-7	Listed	Not applicable	Not applicable	Not applicable

# Xylenes, mixed isomers with ethylbenzene (Flash Point 26.1;C / 79;F; PG III)

Ethylbenzene	100-41-4	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Xylenes (o-, m-, p- isomers)	1330-20-7	Not applicable	Not applicable	Not applicable	Annex I - Y42
Ethylbenzene	100-41-4	Not applicable	Not applicable	Not applicable	Not applicable

16. Other	information
Regulatory Affairs	

	Email: EMSDS.RA@thermofisher.com
Creation Date	12-Feb-2010
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Print Date	24-Dec-2021
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Thermo Fisher Scientific

#### Disclaimer

**Prepared By** 

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### End of SDS