

SAFETY DATA SHEET

Creation Date 31-May-2018

Revision Date 28-Dec-2021

Revision Number 6

1. Identification

Product Name

Xylenes

Cat No. :

AC444240000; AC444240050

CAS No Synonyms 1330-20-7 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

CompanyActUK entity/business nameActFisher Scientific UKOrBishop Meadow Road,FaLoughborough, Leicestershire LE11 5RG,United KingdomGeneral info; Tel: +44 (0)1509 231166Fa

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

EU entity/business name

Acros Organics BVBA Janssen Pharmaceuticalaan 3a, 2440 Geel, Belgium General Info; Tel: +32-14-57 52 11 (info@acros.com) Technical Support; Tel +32-14-56 56 00 (acros.techsupport@thermofisher.com)

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**: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 Acute dermal toxicity Acute Inhalation Toxicity - Vapors Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation	Category 3 Category 4 Category 4 Category 2 Category 2
Specific target organ toxicity (single exposure)	Category 2 Category 3

Target Organs - Respiratory system. Specific target organ toxicity - (repeated exposure) Aspiration Toxicity

Category 2 Category 1

Label Elements

Signal Word

Danger

Hazard Statements

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



Precautionary Statements Prevention

Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Wash face, hands and any exposed skin thoroughly after handling 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 Get medical attention/advice if you feel unwell Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin Call a POISON CENTER or doctor/physician if you feel unwell If skin irritation occurs: Get medical advice/attention 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

3. Composition/Information on Ingredients

Component	CAS No	Weight %	
Xylenes (o-, m-, p- isomers)	1330-20-7	>95	

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. If skin irritation persists, call a physician.			
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. Risk of serious damage to the lungs (by aspiration).			
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward.			
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. Alcohol resistant foam. Dry chemical. Carbon dioxide (CO 2). Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	23 °C / 73.4 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available It No information available No information available

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

None known.

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	Flammability	Instability	Physical hazards	
3	2	0	N/A	
	6. Accidental re	elease measures		
Personal Precautions		on. Use personal protective equi precautionary measures against		
Environmental Precautions	Do not flush into surface	water or sanitary sewer system.	-	
Methods for Containment and Clea	Methods for Containment and CleanSoak up with inert absorbent material. Keep in suitable, closed containers for disposal.UpRemove all sources of ignition. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment.			
	7. Handling	and storage		
Handling	get in eyes, on skin, or on flames, hot surfaces and s	equipment/face protection. Ensu clothing. Avoid ingestion and inl sources of ignition. Use only non equipment. Take precautionary i	halation. Keep away from open -sparking tools. Use spark-proof	
Storage.	Keep away from heat, spa a dry and well-ventilated p		a. Keep container tightly closed in	

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 ³		STEL: 150 ppm
		(Vacated) STEL: 150 ppm		
		(Vacated) STEL: 655 mg/m ³		
		TWA: 100 ppm		
		TWA: 435 mg/m ³		

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment.

Personal Protective Equipment

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.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties					
Physical State	Liquid				
Appearance	Colourless				
Odor	aromatic				
Odor Threshold	No information available				
рН	No information available				
Melting Point/Range	-34 °C / -29.2 °F				
Boiling Point/Range	136 - 140 °C / 276.8 - 284 °F @ 760 mmHg				
Flash Point	23 °C / 73.4 °F				
Evaporation Rate	No information available				
Flammability (solid,gas)	Not applicable				
Flammability or explosive limits					
Upper	No data available				
Lower	No data available				
Vapor Pressure	8 mbar @ 20°C				
Vapor Density	·				
cific Gravity 0.865					
Diubility Insoluble in water					
artition coefficient; n-octanol/water No data available					
Autoignition Temperature	No information available				
Decomposition Temperature	No information available				
Viscosity	No information available				
Molecular Formula	C8 H10				
Molecular Weight	106.17				

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s None under normal use conditions
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information					
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Xylenes (o-, m-, p- isomers)	LD50 = 3500 mg/kg (Rat)	LD50 > 4350 mg/kg (Rabbit)	29.08 mg/L [MOE Risk Assessment Vol.1, 2002]		
Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure					
Irritation	No information available				
Initiation					

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Xylenes (o-, m-, p- isomers)	1330-20-7	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information available					
Reproductive Effect	ts	No information ava	ailable.				
Developmental Effe	cts	No information available.					
Teratogenicity		No information available.					
STOT - single expos STOT - repeated ex		Respiratory system None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	,both acute and	nd Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiti			ea and vomiting		
Endocrine Disruptor Information No information available							
Other Adverse Effects The toxicological properties have not been fully investigated.							

12. Ecological information

Ecotoxicity The product contains following substances which are hazardous for the environment. Contains a substance which is:. Harmful 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)		
		presided)		

Persistence and Degradability

Persistence is unlikely

Bioaccumulation/ Accumulation

No information available.

Mobility

Is not likely mobile in the environment due its low water solubility.

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

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.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Xylenes (o-, m-, p- isomers) - 1330-20-7	U239	-

	14. Transport information
DOT	
UN-No	UN1307
Proper Shipping Name	XYLENES
Hazard Class	3
Packing Group	
<u>TDG</u>	
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	-

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

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	>95	1.0

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- isom	iers) X	100 lb	-	-

Clean Air Act

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

OSHA - Occupational Safety and Not applicable Health Administration

CERCLA

Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs	
Xylenes (o-, m-, p- isomers)	100 lb	-	

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

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

U.S. Department of Transportation

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

and This product does not contain any DHS chemicals.

U.S. Department of Homeland Security

Other International Regulations

Mexico - Grade

No information available

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	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
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	Ozone Depletion	Restriction of

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

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	31-May-2018 28-Dec-2021 28-Dec-2021 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).

Disclaimer

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

End of SDS