

Revision Date 23-Nov-2022

# SAFETY DATA SHEET

Version 2

Xylenes	
-	
HCR9840 1330-20-7 C6H4(CH <sub>3</sub> ) <sub>2</sub>	
For laboratory, scientific, R&D or manufacturing use.	
Histology Connections, LLC 21 Collins Industrial PI. Suite 5A Maumelle, AR 72113 1 (833) 447-8656	
Call CHEMTREC 1-800-424-9300 (International: Call collect 703-527-3887)	

# 2. HAZARDS IDENTIFICATION

### **Classification**

### **OSHA Regulatory Status**

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

Acute toxicity - Dermal	Category 4	
Acute toxicity - Inhalation (Dusts/Mists)	Category 4	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2A	
Carcinogenicity	Category 2	
Specific target organ toxicity (single exposure)	Category 3	
Specific target organ toxicity (repeated exposure)	Category 2	
Aspiration toxicity	Category 1	
Flammable liquids	Category 3	

### Label elements

Signal word Danger

### **Hazard statements**

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

**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. 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.

## Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

In case of fire: Use CO2, dry chemical, or foam for extinction.

### Precautionary Statements - Storage

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

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Xylenes (o-, m-, p- isomers)	1330-20-7	80-95
Ethylbenzene	100-41-4	5-20

### **4. FIRST AID MEASURES**

### Description of first aid measures

Eye contact	Immediately flush with plenty of water for at least 15 minutes, separating eyelids occasionally. Remove contact lenses if present. Get immediate medical attention.	
Skin contact	Wash thoroughly with soap and water while removing contaminated garments. Get medical attention if irritation develops.	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.	
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Potential for aspiration if swallowed. If vomiting occurs, have person lean forward. Clean mouth with water.	
Most important symptoms and effects, both acute and delayed		

#### Most important symptoms and effects, both acute and delayed

Symptoms	May cause CNS depression, dizziness, nausea, vomiting. Causes skin and eye irritation. If
	inhaled, may cause breathing difficulties.

# **5. FIRE-FIGHTING MEASURES**

### Suitable extinguishing media

Water spray (fog) Carbon dioxide (CO2) Foam Dry chemical

# Specific hazards arising from the chemical

No Data Available.

### Protective equipment and precautions for firefighters

Firefighters should wear self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.

NFPA	Health hazards 2	Flammability 3	Instability 0	Physical and Chemical Properties -
	6. ACCI	DENTAL RELEASI	E MEASURES	
Personal precautions, p	protective equipment ar	nd emergency procedu	res	
Personal precautions	Use perso	nal protective equipmen	t as required. Remove all	sources of ignition.
Environmental precauti	ons Prevent er	Prevent entry into waterways, sewers, basements or confined areas.		
Methods and material for containment and cleaning up				
Methods for containment Prevent further leakage or spillage if safe to do so. Prevent material from entering drains.				
Methods for cleaning up Soak up with inert absorbent material. Absorb spill with inert material, scoop up and containerize for disposal. Clean contaminated surface thoroughly.				<i>i</i> 1 1
7. HANDLING AND STORAGE				

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Strong acids. Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Occupational exposure limits**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Xylenes (o-, m-, p- isomers)	STEL: 150 ppm	TWA: 100 ppm	-
1330-20-7	TWA: 100 ppm	TWA: 435 mg/m <sup>3</sup>	
		(vacated) TWA: 100 ppm	
		(vacated) TWA: 435 mg/m <sup>3</sup>	
		(vacated) STEL: 150 ppm	
		(vacated) STEL: 655 mg/m <sup>3</sup>	
Ethylbenzene	TWA: 20 ppm	TWA: 100 ppm	IDLH: 800 ppm
100-41-4		TWA: 435 mg/m <sup>3</sup>	TWA: 100 ppm
		(vacated) TWA: 100 ppm	TWA: 435 mg/m <sup>3</sup>
		(vacated) TWA: 435 mg/m <sup>3</sup>	STEL: 125 ppm
		(vacated) STEL: 125 ppm	STEL: 545 mg/m <sup>3</sup>
		(vacated) STEL: 545 mg/m <sup>3</sup>	-

## Appropriate engineering controls

**Engineering Controls** 

Emergency showers, eyewash stations, ventilation systems.

### Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Skin and body protection	Wear protective gloves and protective clothing. Wear fire/flame resistant/retardant clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear, colorless
Odor	Hydrocarbon
Odor threshold	No Data Available
pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Relative density Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity	No Data Available -25 C 137 C - 140 C 24 C 0.8 (BuAc=1) No Data Available 7% (Vol) 1% (Vol) No Data Available 3.67 .865 No Data Available No Data Available No Data Available Available Available Available 463 C No Data Available 463 C

# **10. STABILITY AND REACTIVITY**

Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Strong acids. Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide.

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Xylenes (o-, m-, p- isomers)	= 3500 mg/kg (Rat)	> 1700 mg/kg (Rabbit)> 4350	= 29.08 mg/L (Rat) 4 h = 5000
1330-20-7		mg/kg (Rabbit)	ppm (Rat)4h
Ethylbenzene	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
100-41-4	· ·		

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Serious eye damage/eye irritatior Sensitization	Irritating to sk Irritating to ey No Data Avai	/es.		
Germ cell mutagenicity	No Data Avai	ilable.		
Carcinogenicity	The table bel	ow indicates whether each	agency has listed any ing	gredient as a carcinoge
Chemical Name	ACGIH	IARC	NTP	OSHA
Xylenes (o-, m-, p- isomers) 1330-20-7	-	Group 3	-	-
Ethylbenzene	A3	Group 2B	-	Х

ACGIN (American Contenence of Governmental Industr A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans Group 3 - Not classifiable as to carcinogenicity in humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

# **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Xylenes (o-, m-, p- isomers) 1330-20-7	-	30.26 - 40.75: 96 h Poecilia reticulata mg/L LC50 static 780: 96	0.6: 48 h Gammarus lacustris mg/L LC50 3.82: 48 h water flea mg/L
		h Cyprinus carpio mg/L LC50 13.4:	EC50
		96 h Pimephales promelas mg/L	
		LC50 flow-through 780: 96 h	
		Cyprinus carpio mg/L LC50	
		semi-static 23.53 - 29.97: 96 h	
		Pimephales promelas mg/L LC50	
		static 13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50	
		flow-through 7.711 - 9.591: 96 h	
		Lepomis macrochirus mg/L LC50	
		static 13.5 - 17.3: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		19: 96 h Lepomis macrochirus mg/L	
		LC50 2.661 - 4.093: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		static	
Ethylbenzene	2.6 - 11.3: 72 h Pseudokirchneriella	11.0 - 18.0: 96 h Oncorhynchus	1.8 - 2.4: 48 h Daphnia magna mg/L
100-41-4	subcapitata mg/L EC50 static 4.6:	mykiss mg/L LC50 static 7.55 - 11:	EC50
	72 h Pseudokirchneriella	96 h Pimephales promelas mg/L	
	subcapitata mg/L EC50 438: 96 h	LC50 flow-through 9.6: 96 h Poecilia	
	Pseudokirchneriella subcapitata	reticulata mg/L LC50 static 9.1 -	
	mg/L EC50 1.7 - 7.6: 96 h	15.6: 96 h Pimephales promelas	
	Pseudokirchneriella subcapitata	mg/L LC50 static 4.2: 96 h	
	mg/L EC50 static	Oncorhynchus mykiss mg/L LC50	
		semi-static 32: 96 h Lepomis	
		macrochirus mg/L LC50 static	

#### Persistence and degradability No Data Available.

# **Bioaccumulation**

No Data Available.

Chemical Name	Partition coefficient
Xylenes (o-, m-, p- isomers)	3.15
1330-20-7	

Ethylbenzene	3.2
100-41-4	

Other adverse effects

No Data Available

# **13. DISPOSAL CONSIDERATIONS**

### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container. Emptied containers may contain residue. Continue to follow label warnings after container is emptied.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Xylenes (o-, m-, p- isomers)	-	Included in waste stream:	-	U239
1330-20-7		F039		
Ethylbenzene	-	Included in waste stream:	-	-
100-41-4		F039		

Chemical Name	California Hazardous Waste Status
Xylenes (o-, m-, p- isomers)	Toxic
1330-20-7	Ignitable
Ethylbenzene	Toxic
100-41-4	Ignitable

# 14. TRANSPORT INFORMATION

Transportation information is provided as a general reference only and may not be applicable in all situations. This information applies to non-bulk shipments only. Per 49 CFR §173.22, it is the shipper's responsibility to ensure that all materials are properly packaged, classified and labeled prior to shipment.

DOT UN/ID no. Proper shipping name Hazard Class Packing Group Reportable Quantity (RQ)	UN1307 Xylenes 3 III 100
IATA_ UN/ID no. Proper shipping name Hazard Class Packing Group	UN1307 Xylenes 3 III

# **15. REGULATORY INFORMATION**

# **US Federal Regulations**

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Xylenes (o-, m-, p- isomers) - 1330-20-7	1.0
Ethylbenzene - 100-41-4	0.1
SARA 311/312 Hazard Categories	
Acute health hazard	No

Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Xylenes (o-, m-, p- isomers) 1330-20-7	100 lb	-	-	Х
Ethylbenzene 100-41-4	1000 lb	Х	Х	Х

## 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)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Xylenes (o-, m-, p- isomers)	100 lb	-	RQ 100 lb final RQ
1330-20-7			RQ 45.4 kg final RQ
Ethylbenzene	1000 lb	-	RQ 1000 lb final RQ
100-41-4			RQ 454 kg final RQ

# US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65			
Ethylbenzene - 100-41-4	Carcinogen			
H.O. Orace Phylicity Review Development				

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Xylenes (o-, m-, p- isomers) 1330-20-7	Х	X	Х
Ethylbenzene	Х	X	Х
100-41-4			

# **16. OTHER INFORMATION**

Prepared By	Histology Connections, LLC - 1 (833) 447-8656
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<u>Disclaimer</u>	

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### **End of Safety Data Sheet**