

SAFETY DATA SHEET

Revision Date 22-01-2025

1. Identification				
Product Name	Xylenes			
Cat No. :	RX590234, RX590234-1,RX590234-5,RX590234-55,RX590309-5,RX590310-55			
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			
Company Rexall Solutions 27 Keefer rd. L2M 6K4 St. Catharines, ON L2M 6S2				
Emergency Telephone Number	CANUTEC's 24-hour number (1-888-CAN-UTEC (226-8832) or 613-996-6666)			
	2. Hazard(s) identification			
Classification This chemical is considered hazardous	s 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 Carcinogenicity Specific target organ toxicity (single ex Target Organs - Respiratory system, of Specific target organ toxicity - (repeate Target Organs - Kidney, Liver, Blood. Aspiration Toxicity	Central nervous system (CNS).			

Label Elements

Signal Word 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 eve 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 Wash contaminated clothing before reuse Eves

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

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

Indestion

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

Hazards not otherwise classified (HNOC)

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	7.0 vol % 1.1 vol % t No information available No information available

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 (CO2). 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	Instability 0	Physical hazards N/A
	6. Accidental re	elease measures	
Personal Precautions	sources of ignition. Take	precautionary measures agains	
Environmental Precautions		on 12 for additional Ecological Ir	h into surface water or sanitary nformation. Avoid release to the
Methods for Containment and (Up		aterial. Keep in suitable, closed	d explosion-proof equipment. Soak l containers for disposal. Take
	7. Handling	and storage	
Handling	Do not get in eyes, on ski open flames, hot surfaces	n, or on clothing. Avoid ingestion and sources of ignition. Use of	otective equipment/face protection. n and inhalation. Keep away from nly non-sparking tools. Use recautionary measures against
Storage.		osed in a dry, cool and well-ven lammables area. Incompatible	

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		
Ethylbenzene	TWA: 20 ppm	(Vacated) TWA: 100 ppm	IDLH: 800 ppm	TWA: 20 ppm
		(Vacated) TWA: 435 mg/m ³	TWA: 100 ppm	
		(Vacated) STEL: 125 ppm	TWA: 435 mg/m ³	
		(Vacated) STEL: 545 mg/m ³	STEL: 125 ppm	
		TWA: 100 ppm	STEL: 545 mg/m ³	
		TWA: 435 mg/m ³		

<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.
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	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. 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 Product	cts Carbon monoxide (CO), Carbon dioxide (CO ₂), Aldehydes, Hydrocarbons	
Hazardous Polymerization	Hazardous polymerization does not occur.	

Hazardous Reaction	azardous Reactions None under normal processing.							
			11. Toxico	ologica	l info	ormation		
Acute Toxicity								
Product Information Oral LD50 Dermal LD50 Vapor LC50			Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Category 4. ATE = 1000 - 2000 mg/kg. Category 4. ATE = 10 - 20 mg/l.					
Component Informa			LD50 Oral			LD50 Dermal	LC50	Inhalation
Xylenes (o-, m-, p-		LD	50 = 3500 mg/kg (F	Rat)		4350 mg/kg (Rabbit) 29.08 mg/L [MC	DE Risk Assessment 1, 2002]
Ethylbenzer	ne		3500 mg/kg (Rat)		1540	0 mg/kg (Rabbit)	17.2 mg	/L (Rat) 4 h
Toxicologically Syn	ergistic		No information ava	ailable				
Products Delayed and immed	liate effects	as we	ell as chronic effe	cts from s	hort an	d long-term expo	sure_	
Irritation			Irritating to eyes, re	espiratory	system	and skin		
Sensitization			No information ava	ailable				
Carcinogenicity			The table below in	dicates wh	ether ea	ach agency has lis	ed any ingredient	as a carcinogen.
Component	CAS No	C	IARC	NTF	כ	ACGIH	OSHA	Mexico
Xylenes (o-, m-, p- isomers)	1330-20	-7	Not listed	Not lis	ted	Not listed	Not listed	Not listed
Group 1 - Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans ACGIH: (American Conference of Governmental Industrial Hygienists) A2 - Suspected Human Carcinogen A3 - Animal Carcinogen ACGIH: (American Conference of Governmental Industrial Hygi				ustrial Hygienists)				
Mutagenic Effects Reproductive Effect	ts		No information ava Experiments have		oroductiv	ve toxicity effects o	n laboratory anima	ls.
Developmental Effe			Developmental effe					
Teratogenicity			Teratogenic effects			-		
	TOT - single exposureRespiratory system Central nervous system (CNS)TOT - repeated exposureKidney Liver Blood							
Aspiration hazard No information available								
Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and v delayed			ea and vomiting					
Endocrine Disrupto	r Informatio	n	No information available					
Other Adverse Effects See actual entry in RTECS for complete information.								
			12. Ecolo	ogical	infor	mation		

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Xylenes (o-, m-, p- isomers)	Not listed	LC50: 30.26 - 40.75 mg/L, 96h static (Poecilia reticulata) LC50: = 780 mg/L, 96h 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)	EC50 = 0.0084 mg/L 24 h	LC50: = 0.6 mg/L, 48h (Gammarus lacustris) EC50: = 3.82 mg/L, 48h (water flea)
Ethylbenzene	EC50: 2.6 - 11.3 mg/L, 72h static (Pseudokirchneriella subcapitata) EC50: 1.7 - 7.6 mg/L, 96h static (Pseudokirchneriella subcapitata) EC50: > 438 mg/L, 96h (Pseudokirchneriella subcapitata) EC50: = 4.6 mg/L, 72h (Pseudokirchneriella subcapitata)	LC50: 7.55 - 11 mg/L, 96h flow-through (Pimephales promelas) LC50: 11.0 - 18.0 mg/L, 96h static (Oncorhynchus mykiss) LC50: = 4.2 mg/L, 96h semi-static (Oncorhynchus mykiss) LC50: = 32 mg/L, 96h static (Lepomis macrochirus) LC50: 9.1 - 15.6 mg/L, 96h static (Pimephales promelas) LC50: = 9.6 mg/L, 96h static (Poecilia reticulata)		EC50: 1.8 - 2.4 mg/L, 48h (Daphnia magna)

substances which are hazardous for the environment. Contains a substance which is:. Toxic to aquatic organisms.

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

Waste Disposal Methods

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	111
TDG	
UN-No	UN1307
Proper Shipping Name	XYLENES
Hazard Class	3
Packing Group	III
IATA	
UN-No	UN1307
Proper Shipping Name	XYLENES
Hazard Class	3
Packing Group	III
IMDG/IMO UN-No	UN1307
	XYLENES
Proper Shipping Name 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

CERCLA

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

OSHA - Occupational Safety and	Not applicable
Health Administration	

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability

Component	Hazardous Substances RQs	CERCLA EHS RQs
Xylenes (o-, m-, p- isomers)	100 lb	-
Ethylbenzene	1000 lb	-

Act (CERCLA) (40 CFR 302)

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	Carcinogen
_			41 µg/day	

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):	Y
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

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	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 Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Xylenes (o-, m-, p- isomers)	1330-20-7	Listed	Not applicable	Not applicable	Not applicable
Ethylbenzene	100-41-4	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	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	
Creation Date Revision Date Print Date Revision Summary	12-Feb-2010 24-Dec-2021 24-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