

### Classified as hazardous in accordance with the criteria of EPA New Zealand

### **Section 1 - Identification**

Product Identifier

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

Synonyms Xylol; Methyltoluene; Dimethylbenzene; (Histological/Laboratory/Certified

ACS/Scintanalyzed)

Molecular Formula C8H10 Molecular Weight 106.17

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Product Code X3-F1GAL; X3P-1GAL; X3RB50; X3S-4; X3S-20; X3S-200

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## Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

Classified as hazardous in accordance with the criteria of EPA New Zealand

**GHS Classification** 

Physical hazards

Flammable liquids Category 3

**Health hazards** 

Category 1 **Aspiration Toxicity Acute Oral Toxicity** Category 4 **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 Reproductive Toxicity Category 2 Specific target organ toxicity - (single exposure) Category 3 Specific target organ toxicity - (repeated exposure) Category 2

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Environmental hazards

Chronic aquatic toxicity

Category 4

#### **Label Elements**



#### Signal Word

#### **Danger**

#### **Hazard Statements**

- H226 Flammable liquid and vapor
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H373 May cause damage to organs through prolonged or repeated exposure
- H413 May cause long lasting harmful effects to aquatic life
- H351 Suspected of causing cancer
- H361 Suspected of damaging fertility or the unborn child
- H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled

#### **Precautionary Statements**

#### Prevention

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P233 Keep container tightly closed
- P243 Take action to prevent static discharges
- P240 Ground and bond container and receiving equipment
- P242 Use non-sparking tools
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear eye protection/ face protection
- P260 Do not breathe dust/fume/gas/mist/vapors/spray

### Response

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P312 Call a POISON CENTER or doctor if you feel unwell
- P331 Do NOT induce vomiting
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
- P362 + P364 Take off contaminated clothing and wash it before reuse

#### Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

#### Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Other hazards which do not result in classification

Toxic to terrestrial vertebrates

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Section 3 - Composition and Information on Ingredients

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

### **Section 4 - First Aid Measures**

**Description of first aid measures** 

**General Advice** If symptoms persist, call a physician.

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**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.

**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.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

**Self-Protection of the First Aider** Use personal protective equipment as required.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting

**Notes to Physician** Treat symptomatically. Symptoms may be delayed.

### **Section 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.

#### Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

### **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.

#### Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **Section 6 - Accidental Release Measures**

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#### Personal Precautions, Protective Equipment and Emergency Procedures

#### **Emergency procedures**

Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

#### **Environmental Precautions**

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 Clean Up

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Take precautionary measures against static discharges.

#### Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations

#### **Reference to Other Sections**

Refer to protective measures listed in Sections 8 and 13.

### **Section 7 - Handling and Storage**

#### Precautions for Safe Handling

#### Advice on safe handling

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for Safe Storage, Including any Incompatibilities

#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area.

#### **Incompatible Materials**

Strong oxidizing agents. Strong acids.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

AS 1940-2004 - The storage and handling of flammable and combustible liquids

## **Section 8 - Exposure Controls and Personal Protection**

#### Control parameters

#### **Exposure limits**

**NZ** - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

**ACGIH** - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

AUS - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)]

Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

Component	New Zealand WEL Australia		ACGIH TLV	The United Kingdom
Xylenes (o-, m-, p- isomers)	TWA: 50 ppm	STEL: 150 ppm	TWA: 20 ppm	STEL: 100 ppm 15 min
	TWA: 217 mg/m <sup>3</sup>	STEL: 655 mg/m <sup>3</sup>		STEL: 441 mg/m <sup>3</sup> 15 min

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		TWA: 80 ppm TWA: 350 mg/m <sup>3</sup>		TWA: 50 ppm 8 hr TWA: 220 mg/m <sup>3</sup> 8 hr
				Skin
Ethylbenzene	TWA: 20 ppm TWA: 88 mg/m³ STEL: 40 ppm STEL: 176 mg/m³ Skin	STEL: 125 ppm STEL: 543 mg/m³ TWA: 100 ppm TWA: 434 mg/m³	TWA: 20 ppm	STEL: 125 ppm 15 min STEL: 552 mg/m³ 15 min TWA: 100 ppm 8 hr TWA: 441 mg/m³ 8 hr Skin

#### **Biological limit values**

**NZ** - Substances assigned Biological Exposure Indices in the New Zealand Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

**UK** - Biological Monitoring Guidance Values provided by the UK's Health and Safety Executive (HSE) Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended) and EH40/2005.

**ACGIH** - American Conference of Governmental Industrial Hygienists (ACGIH) TLVs® and BEIs®- Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices. 2022 Edition

Component	New Zealand	Australia	ACGIH - Biological Exposure Indices	United Kingdom
Xylenes (o-, m-, p- isomers)	1.5 g/L (urine) end of shift (Methylhippuric acid)		1.5 g/g creatinine Medium: urine Time: end of shift Determinant: Methylhippuric	Methyl hippuric acid: 650 mmol/mol creatinine urine post shift
			acids	
Ethylbenzene	0.25 g/g creatinine (urine)		0.15 g/g creatinine	
	end of shift or end of work week (sum of Mandelic acid		Medium: urine Time: end of shift	
	and Phenylglyoxylic acids)		Determinant: Sum of	
			mandelic acid and	
			phenylglyoxylic acid	

#### **Appropriate engineering controls**

#### **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. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

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

Eye Protection Wear safety glasses with side shields (or goggles) (Australian/New Zealand Standard

AS/NZS 1337 - Eye protectors for Industrial applications)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
Viton (R).	See manufacturers	-	AS/NZS 2161	(minimum requirement)
	recommendations			

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

**Repiratory Protection** Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices

Recommended Filter type: Organic gases and vapours filter Type A Brown conforming to EN14387 (or AUS/NZ

equivalent)

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Valve filtering: EN405 or Half mask: EN140 plus filter, EN 141 (or AUS/NZ equivalent) Recommended half mask:-

When RPE is used a face piece Fit Test should be conducted

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent product from entering drains. Do not allow material to contaminate ground water

### **Section 9 - Physical and Chemical Properties**

Information on basic physical and chemical properties

**Physical State** Liquid

Clear **Appearance** aromatic Odor

**Odor Threshold** No data available Not applicable -34 °C / -29.2 °F Melting Point/Range **Softening Point** No data available

**Boiling Point/Range** 136 - 140 °C / 276.8 - 284 °F

Flammability (liquid) Flammable On basis of test data

Flammability (solid, gas) Not applicable Liquid

**Explosion Limits** No data available Lower 1.1 vol %

**Upper** 7.0 vol %

**Flash Point** 25.6 - 32.2 °C / 78.1 - 90 °F Method - No information available

527 - °C / 980.6 - °F **Autoignition Temperature** 

**Decomposition Temperature** No data available **Viscosity** No data available **Water Solubility** Insoluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water) log Pow Component

Xylenes (o-, m-, p- isomers) 3.15 Ethylbenzene 3.6

**Vapor Pressure** 8.29 mmHg @ 25 °C 0.865 (H2O=1) **Density / Specific Gravity** 

**Bulk Density** Not applicable Liquid 3.66 (Air = 1.0)(Air = 1.0)**Vapor Density** 

Particle characteristics Not applicable (liquid)

Other information

**Molecular Formula** C8H10 106.17 **Molecular Weight** 

**Explosive Properties** explosive air/vapour mixtures possible

**Evaporation Rate** 0.7 (Butyl Acetate = 1.0)

## **Section 10 - Stability and Reactivity**

Reactivity None known, based on information available

Stability Stable under normal conditions.

**Sensitivity to Mechanical Impact** No information available

No information available Sensitivity to Static Discharge

**Hazardous Polymerization** Hazardous polymerization does not occur.

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**SAFETY DATA SHEET** 

**Hazardous Reactions** None under normal processing.

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 (CO<sub>2</sub>). Aldehydes. Hydrocarbons.

### **Section 11 - Toxicological Information**

#### **Acute Effects**

#### Information on likely routes of exposure

#### **Product Information**

Inhalation Harmful by inhalation. Irritating to respiratory system. INHALATION MAY CAUSE

CENTRAL NERVOUS SYSTEM EFFECTS. May cause irritation of respiratory tract.

Eyes Irritating to eyes. Contact with eyes may cause irritation.

Skin Harmful in contact with skin. Irritating to skin. Prolonged skin contact may defat the skin and

produce dermatitis. May cause eye/skin irritation.

**Ingestion** Aspiration hazard. May be harmful if swallowed. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea. Ingestion may cause irritation to mucous

membranes.

#### Numerical measures of toxicity

(a) acute toxicity;

OralNo data availableDermalNo data availableInhalationNo data available

#### Toxicology data for the components

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]
Ethylbenzene	3500 mg/kg ( Rat )	15400 mg/kg ( Rabbit )	17.2 mg/L ( Rat ) 4 h

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

**Respiratory Skin**No data available
No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

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

	Component	New Zealand	Australia	New South Wales	Western Australia	IARC	EU	UK	Germany
Ε	Ethylbenzene					Group 2B			

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(g) reproductive toxicity; No data available

**Developmental Effects Teratogenicity**Developmental effects have occurred in experimental animals

Teratogenic effects have occurred in experimental animals.

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs Central nervous system (CNS), Eyes, Respiratory system, Skin, Liver, Kidney, Blood.

(j) aspiration hazard; Based on available data, the classification criteria are not met

Other Adverse Effects See actual entry in RTECS for complete information

Symptoms / effects,both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## **Section 12 - Ecological Information**

**Ecotoxicity** 

Aquatic 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 Fish	Water Flea	Freshwater Algae	Microtox
Xylenes (o-, m-, p- isomers)	LC50: = 780 mg/L, 96h	LC50: = 0.6 mg/L, 48h		EC50 = 0.0084 mg/L 24
	semi-static (Cyprinus	(Gammarus lacustris)		h
	carpio)	EC50: = 3.82 mg/L, 48h		
	LC50: > 780 mg/L, 96h	(water flea)		
	(Cyprinus carpio)			
	LC50: 30.26 - 40.75			
	mg/L, 96h static			
	(Poecilia reticulata)			
	LC50: 23.53 - 29.97			
	mg/L, 96h static			
	(Pimephales promelas)			
	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)			
Ethylbenzene	LC50: 7.55 - 11 mg/L,	EC50: 1.8 - 2.4 mg/L,	EC50: 2.6 - 11.3 mg/L,	EC50 = 9.68 mg/L 30
	96h flow-through	48h (Daphnia magna)	72h static	min
	(Pimephales promelas)	(= ====================================	(Pseudokirchneriella	EC50 = 96 mg/L 24 h
	LC50: 11.0 - 18.0 mg/L,		subcapitata)	

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96h static		EC50: 1.7 - 7.6 mg/L,	
(Oncorhynchus myl	kiss)	96h static	
LC50: = 4.2  mg/L,	96h	(Pseudokirchneriella	
semi-static		subcapitata)	
(Oncorhynchus myl	kiss)	EC50: > 438 mg/L, 96h	
LC50: = 32 mg/L,	96h	(Pseudokirchneriella	
static (Lepomis		subcapitata)	
macrochirus)		EC50: = $4.6 \text{ mg/L}$ , $72h$	
LC50: 9.1 - 15.6 m	g/L,	(Pseudokirchneriella	
96h static (Pimeph	ales	subcapitata)	
promelas)			
LC50: = 9.6  mg/L,	96h		
static (Poecilia			
reticulata)			

Terrestrial ecotoxicity There is no data for this product

Persistence and Degradability

No information available

**Persistence** Persistence is unlikely.

Degradation in sewage treatment

plant

Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants.

Bioaccumulative Potential Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Xylenes (o-, m-, p- isomers)	3.15	0.6 - 15 dimensionless
Ethylbenzene	3.6	15 dimensionless

**Mobility** 

Other adverse effects

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

## **Section 13 - Disposal Considerations**

#### Waste treatment methods

Waste from Residues/Unused Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure

conformity with all applicable regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point. Empty containers

retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and

empty container away from heat and sources of ignition.

Other Information Disposal agencies or waste contractors must comply with the New Zealand Hazardous

Substances (Disposal) Regulations . Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be

landfilled or incinerated, when in compliance with local regulations.

## **Section 14 - Transport Information**

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Component	Hazchem Code
Xylenes (o-, m-, p- isomers)	3Y
1330-20-7 ( 96 )	3YE
Ethylbenzene	3YE
100-41-4 ( 4 )	

#### NZS 5433:2020

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
Proper Shipping Name XYLENES
Hazard Class 3
Packing Group III

Environmental hazards No hazards identified

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable, packaged goods

IBC Code

**Special Precautions**No special precautions required. Please refer to the applicable dangerous goods regulations for additional information.

Additional information None known

## **Section 15 - Regulatory Information**

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

#### **National Regulations**

Any applicable tolerable exposure limits and environmental exposure limits according to the EPA Controls for Hazardous Substances are listed below

Component	Tolerable Exposure Limit (TEL) Air	Tolerable Exposure Limit (TEL) Water	Tolerable Exposure Limit (TEL) Surface	Environmental Exposure Limits (EEL)
Xylenes (o-, m-, p- isomers)	0.87 mg/m <sup>3</sup>	0.6 mg/L	,	` '

#### Certified handlers, tracking and controlled substance license requirements

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information. Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information.

#### Prohibition or notification/licensing requirements

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

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International Regulations

Ozone Depletion Potential This product does not contain any known or suspected substance

Persistent Organic Pollutant This product does not contain any known or suspected substance

Rotterdam Convention (PIC) Not applicable

## Authorisation/Restrictions according to EU REACH

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

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

#### **International Inventories**

New Zealand (NZIoC), Australia (AICS), Europe (EINECS/ELINCS/NLP), Korea (KECL), China (IECSC), Taiwan (TCSI), Japan (ISHL), Canada (DSL/NDSL), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	NZIoC	AICS	EINECS	ELINCS	NLP	KECL	IECSC	TCSI
Xylenes (o-, m-, p- isomers)	1330-20-7	Х	Х	215-535-7	-	-	KE-35427	Х	X
Ethylbenzene	100-41-4	Х	Х	202-849-4	-	-	KE-13532	X	X

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	PICCS	ISHL	ENCS
Xylenes (o-, m-, p- isomers)	1330-20-7	Х	ACTIVE	X	-	X	Х	Х
Ethylbenzene	100-41-4	Х	ACTIVE	X	-	Х	Х	Х

**Legend:** X - Listed '-' - Not Listed **KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### **Section 16 - Other Information**

# This safety data sheet complies with the requirements of the EPA Hazardous Substances (Hazard Classification) Notice 2020 and WorkSafe New Zealand Regulations

#### Legend

NZIoC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances **TWA** - Time Weighted Average

IARC - International Agency for Research on Cancer

NZS 5433:2020 - Transport of Dangerous Goods on Land

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

LD50 - Lethal Dose 50%

**AICS** - Australian Inventory of Chemical Substances

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

PNEC - Predicted No Effect Concentration

**OECD** - Organisation for Economic Co-operation and Development **IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

ADG - Australian Code for the Transport of Dangerous Goods by Road and Rail

LC50 - Lethal Concentration 50%

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## Xylenes, mixed isomers with ethylbenzene (Flash Point 26.1¦C /

79¦F; PG III)

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**EC50** - Effective Concentration 50% **ATE** - Acute Toxicity Estimate

WEL - Workplace Exposure Limit

NEL - Derived No Effect Level

RPE - Respiratory Protective Equipment
NOEC - No Observed Effect Concentration

POW - Partition coefficient Octanol:Water **PVPB** - very Persistent, very Bioaccumulative **PBT** - Persistent, Bioaccumulative, Toxic

**VOC** - (Volatile Organic Compound)

#### Key literature references and sources for data

HSNO classifications provided in the New Zealand Chemical Classification Information Database (CCID).

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

EPA Guide to classifying hazardous substances in New Zealand

EPA - Assigning a product to an existing HSNO approval guide

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards

Health Hazards

Calculation method

Environmental hazards

On basis of test data

Calculation method

Calculation method

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

Revision Date 10-Mar-2023 Revision Summary Not applicable

#### 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 Safety Data Sheet**

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