

SAFETY DATA SHEET

Australian statement of hazardous nature: Classified as hazardous according to criteria of Safe Work Australia

Section 1 - Identification

Product Name Ethylbenzene

Product Code VMMMMF006848/VMMMMF006687

Address ThermoFisher Scientific Australia Pty Ltd

5 Caribbean Drive, Scoresby VICTORIA 3179, Australia

Emergency Tel. CHEMTREC®

03 9757 4559 or +613 9757 4559

Telephone / Fax NumbersTel: 1300 735 292
Fax: 1800 067 639

ANZinfo@thermofisher.com

Recommended Use Laboratory chemicals.

Uses advised against This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction. This product does not contain any substance(s) listed on the voluntary National

Code of Practice for Chemicals of Security Concern.

Section 2 - Hazard(s) Identification

Classification under Safe Work Australia

Classified as hazardous according to criteria of Safe Work Australia

Physical hazards

E-mail address

Flammable liquids Category 3

Health hazards

Acute Dermal Toxicity

Acute Inhalation Toxicity - Vapors

Skin Corrosion/Irritation

Specific target organ toxicity - (repeated exposure)

Category 2

Category 2

Category 2

Environmental hazards

No hazards identified

Label Elements







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Signal Word Warning

Hazard Statements

H226 - Flammable liquid and vapor

H315 - Causes skin irritation

H373 - May cause damage to organs through prolonged or repeated exposure

H312 + H332 - Harmful in contact with skin or if inhaled

Precautionary Statements

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

P240 - Ground and bond container and receiving equipment

P242 - Use non-sparking tools

P243 - Take action to prevent static discharges

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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

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

P363 - Wash contaminated clothing before reuse

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

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

Other information

Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Xylene	1330-20-7	53-58
Non Hazardous Media	NA	33.8-41.3
Ethylbenzene	100-41-4	5.3-9

Section 4 - First Aid Measures

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

General Advice If symptoms persist, call a physician.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

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protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

None reasonably foreseeable. 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

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.

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

Emergency procedures

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

Environmental Precautions

Should not be released into the environment. See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up

Clean-up methods - small spillage

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

Clean-up methods - large spillage

Typically only supplied is small quantiites as packaged goods.

If extremely toxic or used in larger quantities ensure a spillage action plan is in place. Evacuate area. Control the source and/or contain the spill if safe and able to do so. Use temporary diking, sand bags, dry sand, earth or proprietary booms/absorbent pads if available. Obtain advice on containment, neutralisation and clean-up from local emergency responders.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. 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. Take precautionary measures against static discharges.

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Conditions for Safe Storage, Including any Incompatibilities

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

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

Exposure limits

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

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.

UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

DE - MAK and BAT values of Hazardous Chemical Compounds in the Work Area. Published by German Research Foundation on July 1, 2011

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

Component	Australia	New Zealand WEL	ACGIH TLV	The United Kingdom	Germany
Xylene	STEL: 150 ppm	TWA: 50 ppm	TWA: 20 ppm	STEL: 100 ppm 15 min	TWA: 50 ppm (8
	STEL: 655 mg/m ³	TWA: 217 mg/m ³		STEL: 441 mg/m ³ 15	Stunden). AGW -
	TWA: 80 ppm			min	exposure factor 2
	TWA: 350 mg/m ³			TWA: 50 ppm 8 hr	TWA: 220 mg/m ³ (8
				TWA: 220 mg/m ³ 8 hr	Stunden). AGW -
				Skin	exposure factor 2
					TWA: 50 ppm (8
					Stunden). MAK all
					isomers
					TWA: 220 mg/m ³ (8
					Stunden). MAK all
					isomers
					Höhepunkt: 100 ppm
					Höhepunkt: 440 mg/m³
					Haut
=	0777	7 1111 00		0751 105 15 1	Haut all isomers
Ethylbenzene	STEL: 125 ppm	TWA: 20 ppm	TWA: 20 ppm	STEL: 125 ppm 15 min	TWA: 20 ppm (8
	STEL: 543 mg/m ³	TWA: 88 mg/m ³		STEL: 552 mg/m ³ 15	Stunden). AGW -
	TWA: 100 ppm	STEL: 40 ppm		min	exposure factor 2
	TWA: 434 mg/m ³	STEL: 176 mg/m³ Skin		TWA: 100 ppm 8 hr	TWA: 88 mg/m³ (8
		SKIII		TWA: 441 mg/m ³ 8 hr Skin	Stunden). AGW - exposure factor 2
				SKIII	TWA: 20 ppm (8
					Stunden). MAK
					TWA: 88 mg/m ³ (8
					Stunden). MAK
					Höhepunkt: 40 ppm
					Höhepunkt: 176 mg/m ³
					Haut

Biological limit values

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.

Component	Australia	New Zealand	European Union	United Kingdom	Germany
Xylene		1.5 g/L (urine) end of		Methyl hippuric acid:	Methylhippuric(tolur-)aci
		shift (Methylhippuric		650 mmol/mol creatinine	d (all isomers): 2000
		acid)		urine post shift	mg/L urine (end of shift
					all isomers)
Ethylbenzene		0.25 g/g creatinine			Mandelic acid plus
		(urine) end of shift or			Phenylglyoxylic acid:
		end of work week (sum			250 mg/g Creatinine
		of Mandelic acid and			urine (end of shift)
		Phenylglyoxylic acids)			

Exposure Controls

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Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment.

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

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

ſ	Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
1	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)

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

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

system.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Amber Physical State Liquid

Odor No information available
Odor Threshold No data available

pH Not applicable

Melting Point/RangeNo data available 44444Softening PointNo data availableBoiling Point/Range137 °C / 278.6 °F

Flash Point Not applicable Method - No information available

Evaporation Rate No data available
Flammability (solid,qas) Not applicable Liquid

Explosion Limits

No data available

Vapor Pressure No data available

Vapor Density No data available (Air = 1.0)

Specific Gravity / Density No data available

Bulk Density Not applicable Liquid

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explosive air/vapour mixtures possible

Water Solubility Slightly soluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Componentlog PowXylene3.15Ethylbenzene3.6

Autoignition Temperature

Decomposition Temperature

Viscosity

No data available
No data available
No data available

Explosive Properties

Oxidizing Properties No information available

Other information

Section 10 - Stability and Reactivity

Reactivity 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 None known.

Hazardous Decomposition Products None under normal use conditions.

Hazardous Polymerization Hazardous polymerization does not occur.

Section 11 - Toxicological Information

Information on Toxicological Effects

Product Information

(a) acute toxicity;

Oral Based on available data, the classification criteria are not met

DermalCategory 4InhalationCategory 4

Toxicology data for the components

	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
	Xylene	3500 mg/kg (Rat)	4350 mg/kg (Rabbit)	29.08 mg/L (Rat) 4 h
[Ethylbenzene	3500 mg/kg (Rat)	15400 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h

(b) skin corrosion/irritation; Category 2

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

(d) respiratory or skin sensitization;

RespiratoryNo data availableSkinNo data available

(e) germ cell mutagenicity; No data available

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(f) carcinogenicity; No data available

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

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

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; Category 2

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting delayed

Section 12 - Ecological Information

Ecotoxicity effects

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

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Xylene	LC50: 30.26 - 40.75	LC50: = 0.6 mg/L, 48h		
	mg/L, 96h static	(Gammarus lacustris)		
	(Poecilia 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)			
	(i imophaico promoiac)			
Ethylbenzene	LC50: 9.1 - 15.6 mg/L,	EC50: 1.8 - 2.4 mg/L,	EC50: 2.6 - 11.3 mg/L,	EC50 = 9.68 mg/L 30
	96h static (Pimephales	48h (Daphnia magna)	72h static	min
	promelas)		(Pseudokirchneriella	EC50 = 96 mg/L 24 h
	LC50: 11.0 - 18.0 mg/L,		subcapitata)	ĭ
	96h static		EC50: 1.7 - 7.6 mg/L,	
	(Oncorhynchus mykiss)		96h static	
	LC50: = 4.2 mg/L, 96h		(Pseudokirchneriella	
	semi-static		subcapitata)	
	(Oncorhynchus mykiss)		EC50: > 438 mg/L, 96h	
	LC50: 7.55 - 11 mg/L,		(Pseudokirchneriella	
	96h flow-through		subcapitata)	

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(Pimephales promelas) LC50: = 32 mg/L, 96h static (Lepomis macrochirus) LC50: = 9.6 mg/L, 96h static (Poecilia reticulata)	EC50: = 4.6 mg/L, 72h (Pseudokirchneriella subcapitata)	
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Persistence and Degradability

Persistence

May persist, based on information available.

Degradation in sewage treatment plant

water treatment plants.

Bioaccumulative Potential

Ozone Depletion Potential

May have some potential to bioaccumulate

Component	log Pow	Bioconcentration factor (BCF)
Xylene	3.15	0.6 - 15 dimensionless
Ethylbenzene	3.6	15 dimensionless

Mobility

Endocrine Disruptor Information Persistent Organic Pollutant

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

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 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.

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

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

Chemical wastes should be disposed through a licensed commercial waste collection service. 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

IMDG/IMO

UN-No UN1263 Proper Shipping Name PAINT

Technical Shipping Name MCOAT A (Paint related material)

Hazard Class 3
Packing Group III

ADG

UN-No UN1263 Proper Shipping Name PAINT

Technical Shipping Name MCOAT A (Paint related material)

Hazard Class 3
Packing Group III

Component	Hazchem Code
Xylene	3Y
1330-20-7 (53-58)	3YE
Ethylbenzene	3YE
100-41-4 (5.3-9)	

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IATA

UN-No UN1263 Proper Shipping Name PAINT

Technical Shipping Name MCOAT A (Paint related material)

Hazard Class 3
Packing Group III

Environmental hazards No hazards identified

Special Precautions No special precautions required

Additional information None known

Section 15 - Regulatory Information

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

National Regulations Australia

See section 8 for national exposure control parameters.

Standard for the Uniform Scheduling of Medicines and Poisons

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons.

Component	Standard for the Uniform Scheduling of Medicines and Poisons
Xylene - 1330-20-7	Schedule 5 listed - including Kerosene, Diesel [distillate], Mineral turpentine, White petroleum spirit, Toluene, Xylene and light mineral and paraffin oils but except their derivative; except a) Toluene and Xylene when included in Schedule 6, b) Benzene and liquid aromatic hydrocarbons when included in Schedule 7, c) food grade and pharmaceutical grade White mineral oil, d) in solid or semi-solid preparations, e) in preparations containing <=25% of designated solvents, f) in preparations packed in pressurized spray packs, g) in adhesives packed in containers each containing <=50 grams of adhesive, h) in writing correction fluids and thinners for writing correction fluids packed in containers having a capacity of <=20 mL, or i) in other preparations when packed in containers with a capacity of <=2 mL Schedule 6 listed - except its derivatives; except in preparations containing <=50% of Xylene or Xylene and Toluene

Australian Industrial Chemicals Introduction Scheme (AICIS)

Component	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Xylene - 1330-20-7	Present	÷
Ethylbenzene - 100-41-4	Present	-

Australian - Illicit Drug Precursors/Reagents Substance List

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

Chemicals of Security Concern

This product does not contain any substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

National pollutant inventory Subject to reporting requirements

Component	National pollutant inventory
Xylene - 1330-20-7	10 tonne/yr. Threshold category 1 including individual or mixed isomers

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E.I. II	40. / = 1.11
Ethylbenzene - 100-41-4	10 tonne/vr. Threshold category 1
Luiyibelizelle - 100-41-4	10 tollile/yl. Thieshold category i

Prohibition or notification/licensing requirements

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

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction.

International Inventories

Component	AICS	NZIoC	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	ISHL	IECSC	KECL
Xylene	Х	Х	215-535-7	-	X	Х	-	Х	Х	Х	Х	KE-35427
Ethylbenzene	Х	Х	202-849-4	-	X	Х	-	Х	Χ	Х	Х	KE-13532

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

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

Basel convention on the control of transboundary movements of hazardous wastes and their dispoal

Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

Component	Basel Convention (Hazardous Waste)	Australian Hazardous Waste Act - Categories of Wastes to Be Controlled
Xylene - 1330-20-7	Annex I - Y42	Y42 except Halogenated solvents

Component	CAS No	OECD HPV	Restriction of Hazardous Substances (RoHS)	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Xylene	1330-20-7	Listed	Not applicable	Not applicable	Not applicable
Non Hazardous Media	NA	Not applicable	Not applicable	Not applicable	Not applicable
Ethylbenzene	100-41-4	Listed	Not applicable	Not applicable	Not applicable

Authorisation/Restrictions according to EU REACH

Component		REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	
Xylene	-	Use restricted. See item 75. (see link for restriction details)	-

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

Section 16 - Other Information

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Legend

AICS - Australian Inventory of Chemical Substances

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

ICAO/IATA - International Civil Aviation Organization/International Air

Transport Association

MARPOL - International Convention for the Prevention of Pollution from

NZS 5433:2020 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit **DNEL** - Derived No Effect Level

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

NZIoC - New Zealand Inventory of Chemicals

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

Predicted No Effect Concentration (PNEC)

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

LC50 - Lethal Concentration 50% ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment

NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data

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

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

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

Physical hazards On basis of test data **Health Hazards** Calculation method **Environmental hazards** Calculation method

Training Advice

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

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.

14-Jul-2023 **Revision Date**

Revision Summary Update to GHS format.

This Safety Data Sheet (SDS) is prepared in accordance to and complies with the requirements of Safe Work Australia - Work Health and Safety Regulations (WHS Regulations).

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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