

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

## Section 1 - Identification

Product Name EpoKwick Hardener/EpoxiCure /aEpoThin 2 Hardener

Product Code BUE20-8129, BUE20-8128, BUE20-2453-032, BUE20-3432-016, BUE20-3442-016,

BUE20-8132-032, BUE20-8138-032, BUE20-8142-016

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 Numbers** Tel: 1300 735 292

Fax: 1800 067 639

E-mail address 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 contains one or more 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

No hazards identified

### **Health hazards**

Acute Inhalation Toxicity - Vapors

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Skin Sensitization

Reproductive Toxicity

Category 1

Category 1

Category 1

Category 2

**Environmental hazards** 

Chronic aquatic toxicity Category 2

**Label Elements** 

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Skull and Crossbones

Health Hazard Corrosion

Signal Word Danger

### **Hazard Statements**

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H330 - Fatal if inhaled

H361 - Suspected of damaging fertility or the unborn child

H411 - Toxic to aquatic life with long lasting effects

### **Precautionary Statements**

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

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

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves

P284 - Wear respiratory protection

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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

P310 - Immediately call a POISON CENTER or doctor

P363 - Wash contaminated clothing before reuse

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

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

### Other information

Contains a known or suspected endocrine disruptor

Included in the list established in accordance with Article 59(1) for having endocrine disrupting properties

# Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
p-tert-Butyl phenol	98-54-4	10-20
m-Xylenealpha., .alpha.'-diamine	1477-55-0	10-20
Buffer Component - Trade Secret	NA	20-50
Triphenyl phosphite	101-02-0	5-10
Triethylene tetramine	112-24-3	1-5
Triethanolamine	102-71-6	1-5

# Section 4 - First Aid Measures

Inhalation

If breathing is difficult, give oxygen. 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

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a one-way valve or other proper respiratory medical device. Remove to fresh air. Immediate

medical attention is required.

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

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

attention is required.

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

the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

**General Advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

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

protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

Causes burns by all exposure routes. May cause allergic skin reaction. . Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness,

lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically.

## Section 5 - Fire Fighting Measures

### **Suitable Extinguishing Media**

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

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

No information available.

### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

#### 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. Thermal decomposition can lead to release of irritating gases and vapors.

## Section 6 - Accidental Release Measures

### **Emergency procedures**

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **Environmental Precautions**

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

### Clean-up methods - small spillage

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

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### 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**

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance.

### Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

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

# 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.

**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
p-tert-Butyl phenol					TWA: 0.08 ppm (8 Stunden). AGW -
					exposure factor 2
					TWA: 0.5 mg/m <sup>3</sup> (8
					Stunden). AGW -
					exposure factor 2
					TWA: 0.080 ppm (8
					Stunden). MAK can
					occur as vapor and
					aerosol at the same
					time
					TWA: 0.5 mg/m <sup>3</sup> (8
					Stunden). MAK can
					occur as vapor and
					aerosol at the same
					time
					Höhepunkt: 0.16 ppm
					Höhepunkt: 1.0 mg/m <sup>3</sup>
V I I I			0.11. 0.010		Haut
m-Xylenealpha., .alpha.'-diamine		Ceiling: 0.1 mg/m³ Skin	Ceiling: 0.018 ppm Skin		
Triethanolamine	TWA: 5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>		TWA: 1 mg/m <sup>3</sup> (8
	_		_		Stunden). AGW -
					exposure factor 1
					TWA: 1 mg/m³ (8
					Stunden). MAK can
					occur as vapor and
					aerosol at the same

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- 1			
			time
			Höhepunkt: 1 mg/m <sup>3</sup>

### **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

	Component	Australia	New Zealand	European Union	United Kingdom	Germany
ĺ	p-tert-Butyl phenol					4-tert-Butylphenol (after
						hydrolysis): 2 mg/L urine
						(end of shift)

### **Exposure Controls**

### **Engineering Measures**

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

### Personal protective equipment

**Eye Protection** 

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
Disposable gloves	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 (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 Clear Physical State Liquid

Odor No information available

Odor Threshold No data available PH Not applicable Melting Point/Range No data available

Melting Point/RangeNo data availableSoftening PointNo data available

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# EpoKwick Hardener/EpoxiCure /aEpoThin 2 Hardener

**Explosion Limits** 

## **SAFETY DATA SHEET**

Method - No information available

Liquid

Liquid

(Air = 1.0)

Boiling Point/Range Not applicable

Flash Point Not applicable

Flash Point Not applicable
Evaporation Rate No data available
Flammability (solid,gas) Not applicable

No data available

Vapor PressureNo data availableVapor DensityNo data available

Specific Gravity / Density

Bulk Density

Water Solubility

No data available
Not applicable
Moderately soluble

Solubility in other solvents

No information available

Partition Coefficient (n-octanol/water)

Componentlog Powp-tert-Butyl phenol3m-Xylene-.alpha., .alpha.'-diamine0.18Triphenyl phosphite4.98Triethylene tetramine-1.4Triethanolamine-2.53

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data available

Explosive Properties No information available 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.

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;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not met

Inhalation Category 2

### Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
p-tert-Butyl phenol	LD50 = 4000 mg/kg (Rat)	LD50 = 2318 mg/kg ( Rabbit )	
m-Xylenealpha., .alpha.'-diamine	LD50 = 660 mg/kg (Rat)	LD50 = 2 g/kg ( Rabbit )	LC50 = 1.38 mg/L (Rat) 4 h LC50 = 1.16 mg/L (Rat) 4 h

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Triphenyl phosphite	444 mg/kg (Rat)	1180-2900 mg/kg (Rat)	>6.7 mg/L (Rat) 1 h
	1590 mg/kg ( Rat )	>2000 mg/kg (Rabbit)	
Triethylene tetramine	LD50 = 1861.9 mg/kg (rat)	550 mg/kg (Rabbit)	
-	OECD 401		
Triethanolamine	LD50 = 4190 mg/kg (Rat)	>16 mL/kg (Rat)	
		>2000 mg/kg (Rabbit)	

(b) skin corrosion/irritation; Category 1 B

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

No data available Respiratory

Skin Category 1

No information available Sensitization

No data available (e) germ cell mutagenicity;

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; Category 2

(h) STOT-single exposure: No data available

No data available (i) STOT-repeated exposure;

**Target Organs** No information available.

(j) aspiration hazard; No data available

delayed

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

# Section 12 - Ecological Information

### **Ecotoxicity effects**

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.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
p-tert-Butyl phenol	LC50: = 6.9 mg/L, 96h static (Cyprinus carpio) LC50: 4.71 - 5.62 mg/L, 96h flow-through (Pimephales promelas)	(Daphnia magna) EC50: 3.4 - 4.5 mg/L, 48h Static (Daphnia	EC50: = 11.2 mg/L, 72h (Desmodesmus subspicatus)	EC50 = 0.21 mg/L 5 min
m-Xylenealpha., .alpha.'-diamine	LC50: = 87.6 mg/L, 96h semi-static (Oryzias latipes)	EC50: 16 mg/L/48h		
Triethylene tetramine	LC50: = 495 mg/L, 96h (Pimephales promelas) LC50: = 570 mg/L, 96h semi-static (Poecilia	EC50: 31.1 mg/L/48h (Daphnia magna)	EC50: 2.5 mg/L/72h EC50: 20 mg/L/72h EC50: 2.5 mg/L/72h	

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	reticulata)		
Triethanolamine	LC50: 10600 - 13000 mg/L, 96h flow-through (Pimephales promelas) LC50: > 1000 mg/L, 96h static (Pimephales promelas) LC50: 450 - 1000 mg/L, 96h static (Lepomis macrochirus)	EC50: = 169 mg/L, 96h (Desmodesmus subspicatus) EC50: = 216 mg/L, 72h (Desmodesmus subspicatus)	EC50 > 10000 mg/L 30 min

Persistence and Degradability

**Persistence** 

Soluble in water, Persistence is unlikely, based on information available.

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)
p-tert-Butyl phenol	3	44 - 48 dimensionless
m-Xylenealpha., .alpha.'-diamine	0.18	No data available
Triphenyl phosphite	4.98	No data available
Triethylene tetramine	-1.4	No data available
Triethanolamine	-2.53	<3.9 dimensionless

Mobility

The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

**Endocrine Disruptor Information** 

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
p-tert-Butyl phenol	Group II Chemical		
Triethylene tetramine	Group III Chemical		

Persistent Organic Pollutant Ozone Depletion Potential 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.

**Contaminated Packaging** 

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

**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. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Do not let this chemical enter the environment.

# Section 14 - Transport Information

### IMDG/IMO

UN-No UN2735

**Proper Shipping Name** AMINES, LIQUID, CORROSIVE, N.O.S.

Technical Shipping Name Aliphatic Amine Blend

Hazard Class 8
Packing Group III

ADG

UN-No UN2735

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Proper Shipping Name AMINES, LIQUID, CORROSIVE, N.O.S.

Technical Shipping Name Aliphatic Amine Blend

Hazard Class 8
Packing Group III

Component	Hazchem Code
Triethylene tetramine	2X
112-24-3 ( 1-5 )	

### IATA

UN-No UN2735

Proper Shipping Name AMINES, LIQUID, CORROSIVE, N.O.S.

Technical Shipping Name Aliphatic Amine Blend

Hazard Class 8
Packing Group III

**Environmental hazards** Dangerous for the environment

Product is a marine pollutant according to the criteria set by IMDG/IMO

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			
Triethylene tetramine - 112-24-3	Schedule 4 listed - present			
Triethanolamine - 102-71-6	Schedule 4 listed - when in preparations for tattoo removal			
	Schedule 5 listed - except its salts and derivatives; except when in Schedule 4 or in preparations			
	containing <=5% of Trolamine Schedule 5 listed - for use as curing agents for Epoxy resins except			
	when separately specified in these Schedules			

### **Australian Industrial Chemicals Introduction Scheme (AICIS)**

Component	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
p-tert-Butyl phenol - 98-54-4	Present	-
m-Xylenealpha., .alpha.'-diamine - 1477-55-0	Present	<u>-</u>
Triphenyl phosphite - 101-02-0	Present	-
Triethylene tetramine - 112-24-3	Present	-
Triethanolamine - 102-71-6	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 contains one or more substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

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Component	Australian - Illicit Drug Precursors/Reagents Substance List	Chemicals of Security Concern
Triethanolamine - 102-71-6		Listed in Appendix A

### Legend

Chemicals of Security Concern - for further information see http://www.chemicalsecurity.gov.au/securityconcerns

National pollutant inventory Not applicable

### 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	<b>ELINCS</b>	TSCA	DSL	NDSL	PICCS	<b>ENCS</b>	ISHL	<b>IECSC</b>	KECL
p-tert-Butyl phenol	X	Х	202-679-0	-	X	Х	-	Х	Х	Х	Х	KE-11399
m-Xylenealpha., .alpha.'-diamine	Х	Х	216-032-5	-	X	Х	-	Х	Х	Х	Х	KE-02918
Triphenyl phosphite	X	Х	202-908-4	-	X	Х	-	Χ	Х	Х	Χ	KE-34742
Triethylene tetramine	X	Х	203-950-6	-	X	Х	-	Х	Х	Х	Х	KE-02911
Triethanolamine	X	Х	203-049-8	-	X	Х	-	Х	Х	X	Χ	KE-25940

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 Not applicable.

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
p-tert-Butyl phenol	98-54-4	Listed	Not applicable	Not applicable	Not applicable
m-Xylenealpha., .alpha.'-diamine	1477-55-0	Listed	Not applicable	Not applicable	Not applicable
Buffer Component - Trade Secret	NA	Not applicable	Not applicable	Not applicable	Not applicable
Triphenyl phosphite	101-02-0	Listed	Not applicable	Not applicable	Not applicable
Triethylene tetramine	112-24-3	Listed	Not applicable	Not applicable	Not applicable
Triethanolamine	102-71-6	Listed	Not applicable	Not applicable	Not applicable

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### 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)
p-tert-Butyl phenol	-	Use restricted. See entry 75. (see link for restriction details)	SVHC Candidate list - 202-679-0 - Endocrine disrupting properties, Article 57f - environment
Triphenyl phosphite	-	Use restricted. See entry 75. (see link for restriction details)	-
Triethylene tetramine	-	Use restricted. See entry 75. (see link for restriction details)	-

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list https://echa.europa.eu/candidate-list-table

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

## Section 16 - Other Information

### 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 Ships

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

 $\ensuremath{\mathbf{ADG}}$  - Australian Code for the Transport of Dangerous Goods by Road and Rail

**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

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 hygiene.

Revision Date 12-Mar-2025

**Revision Summary** Update to GHS format.

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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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