

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

## Section 1 - Identification

Product Name Etch Solution (0.1 M HF for Sodium Electrode)

Synonyms Sodium electrode etch solution for 2111XP Sodium calibration kit

Product Code ORI181113/ORI2111

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 ANZinfo@thermofisher.com

Recommended Use Laboratory chemicals.

Uses advised against

This product contains one or more substance(s) on the Illicit Drug Precursors/Reagents list.

Verify requirements related to using, handling and storing these substances. 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

Category 1 A

Category 1

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

No hazards identified

**Health hazards** 

Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation

**Environmental hazards** 

No hazards identified

**Label Elements** 

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Signal Word Danger

### **Hazard Statements**

H314 - Causes severe skin burns and eye damage

### **Precautionary Statements**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/protective clothing/eye protection/face 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

This product does not contain any known or suspected endocrine disruptors

# Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Water	7732-18-5	93-95
Acetic acid	64-19-7	4-6
Sodium fluoride	7681-49-4	<1

## Section 4 - First Aid Measures

**Inhalation** Remove from exposure, lie down. 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. Call a physician immediately. If

not breathing, give artificial respiration.

**Ingestion** Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an

unconscious person. Call a physician immediately.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing and gloves, including the inside, before re-use. Call a physician

immediately.

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

Immediate medical attention is required. Keep eye wide open while rinsing.

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**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. 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

Notes to Physician Treat symptomatically.

# Section 5 - Fire Fighting Measures

#### Suitable Extinguishing Media

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

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

No information available.

### **Hazardous Decomposition Products**

May emit toxic fumes under fire conditions.

### 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**

Should not be released into the environment. See Section 12 for additional Ecological Information.

### Methods for Containment and Clean Up

### Clean-up methods - small spillage

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

### 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

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### **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

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

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)]

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
Acetic acid	STEL: 15 ppm	TWA: 10 ppm	TWA: 10 ppm	STEL: 37 mg/m <sup>3</sup>	TWA: 10 ppm (8
	STEL: 37 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup>	STEL: 15 ppm	STEL: 15 ppm	Stunden). AGW -
	TWA: 10 ppm	STEL: 15 ppm		TWA: 10 ppm	exposure factor 2
	TWA: 25 mg/m <sup>3</sup>	STEL: 37 mg/m <sup>3</sup>		TWA: 25 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup> (8
	-	_			Stunden). AGW -
					exposure factor 2
					TWA: 10 ppm (8
					Stunden). MAK
					TWA: 25 mg/m <sup>3</sup> (8
					Stunden). MAK
					Höhepunkt: 20 ppm
					Höhepunkt: 50 mg/m <sup>3</sup>
Sodium fluoride	TWA: 2.5 mg/m <sup>3</sup>		TWA: 2.5 mg/m <sup>3</sup>	STEL: 7.5 mg/m <sup>3</sup> 15 min	TWA: 1 mg/m <sup>3</sup> (8
	_		_	TWA: 2.5 mg/m <sup>3</sup> 8 hr	Stunden). AGW -
				_	exposure factor 4
					TWA: 1 mg/m <sup>3</sup> (8
					Stunden). MAK
					Haut

### **Biological limit values**

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

## **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

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		Glove material Natural rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness	AUS/NZ Standard AS/NZS 2161	Glove comments (minimum requirement)
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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

Particulates filter conforming to EN 143 (or AUS/NZ equivalent) **Recommended Filter type:** 

Particle filtering: EN149:2001 (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

system. Local authorities should be advised if significant spillages cannot be contained.

Estimated

## Section 9 - Physical and Chemical Properties

### Information on basic physical and chemical properties

**Appearance** Clear **Physical State** Liquid

Odorless Odor

**Odor Threshold** No data available

3.0-3.5

0 °C / 32 °F Melting Point/Range

**Softening Point** No data available 100 °C / 212 °F **Boiling Point/Range** 

Estimated Flash Point Not applicable Method - No information available

**Evaporation Rate** No data available

Flammability (solid,gas) Not applicable Liquid

**Explosion Limits** No data available

**Vapor Pressure** No data available

**Vapor Density** (Air = 1.0)No data available Specific Gravity / Density 1.00

**Bulk Density** Not applicable

Liquid Water Solubility Soluble in water

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

log Pow Component Acetic acid -0.2

**Autoignition Temperature** No data available No data available **Decomposition Temperature Viscosity** No data available

**Explosive Properties** No information available **Oxidizing Properties** No information available

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Other information

VOC Content(%) 5.639998664856

# Section 10 - Stability and Reactivity

Reactivity None known, based on information available

**Stability** Stable under normal conditions.

Conditions to Avoid Excess heat.

Incompatible Materials None known.

Hazardous Decomposition Products May emit toxic fumes under fire 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 metInhalationBased on available data, the classification criteria are not met

### Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	-	-
Acetic acid	3310 mg/kg (Rat)	-	> 40 mg/L (Rat) 4 h
Sodium fluoride	LD50 = 52 mg/kg (Rat)	> 2000 mg/kg (Rat)	

(b) skin corrosion/irritation; Category 1 A

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory No data available Skin 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

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

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No information available. **Target Organs** 

(i) 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

# Section 12 - Ecological Information

Contains a substance which is:. Very toxic to aquatic organisms. The product contains **Ecotoxicity effects** following substances which are hazardous for the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Acetic acid	Pimephales promelas:	EC50 = 95 mg/L/24h	-	Photobacterium
	LC50 = 88 mg/L/96h			phosphoreum: EC50 =
	Lepomis macrochirus:			8.8 mg/L/15 min
	LC50 = 75 mg/L/96h			Photobacterium
				phosphoreum: EC50 =
				8.8 mg/L/25 min
				Photobacterium
				phosphoreum: EC50 =
				8.8 mg/L/5 min
Sodium fluoride	Lepomis macrochirus:	338 mg/L EC50 = 48 h	EC50: = 850 mg/L, 72h	-
	530 mg/L LC50 96 h	98 mg/L EC50 = 48 h	static (Desmodesmus	
	(static)	(static)	subspicatus)	
	830 mg/L LC50 96 h		EC50: = 272 mg/L, 96h	
	(semi-static)		(Pseudokirchneriella	
	Pimephales promelas:		subcapitata)	
	180 mg/L LC50 96 h			
	Oncorhynchus mykiss:			
	38 - 68 mg/L LC50 96 h			

Persistence and Degradability

**Persistence** 

Degradation in sewage treatment plant **Bioaccumulative Potential** 

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

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)						
Acetic acid	-0.2	No data available						
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	This product does not contain any known or suspected endocrine disruptors							
Persistent Organic Pollutant	This product does not contain any known or suspected substance							
Ozone Depletion Potential	This product does not contain any known or su	uspected 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.

# Section 14 - Transport Information

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IMDG/IMO Not regulated

ADG Not regulated

Component	Hazchem Code
Acetic acid	2P
64-19-7 ( 4-6 )	2R
Sodium fluoride	2Z
7681-49-4 ( <1 )	

IATA Not regulated

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
Acetic acid - 64-19-7	Schedule 2 listed
	Schedule 5 listed - except its salts and derivatives; in preparations except when included in Schedule 2
	or 6, or for therapeutic use
	Schedule 6 listed - except its salts and derivatives; except when included in Schedule 2
Sodium fluoride - 7681-49-4	Schedule 2 listed
	Schedule 3 listed
	Schedule 4 listed - in preparations for human use except when included in or expressly excluded from
	Schedule 2 or 3
	Schedule 5 listed - in preparations except: in preparations for human use, or in preparations containing
	<=15 mg/kg of Fluoride ion;as Fluoride ion
	Schedule 6 listed - except: when included in Schedule 5, in preparations for human use, or in
	preparations containing <=15 mg/kg of Fluoride ion

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

Component	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Water - 7732-18-5	Present	ē
Acetic acid - 64-19-7	Present	-
Sodium fluoride - 7681-49-4	Present	-

### Australian - Illicit Drug Precursors/Reagents Substance List

This product contains one or more substance(s) on the Illicit Drug Precursors/Reagents list. Verify requirements related to using, handling and storing these substances.

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### **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

Component	Australian - Illicit Drug Precursors/Reagents Substance List	Chemicals of Security Concern
Acetic acid - 64-19-7	Category 3	

### Legend

Category 3 - Chemicals and apparatus that may be used in the illicit production of drugs. Purchases from this list should alert companies or organizations to seek further indicators of any suspicious orders or enquiries. No official reporting is required for items on this list unless considered warranted

National pollutant inventory Subject to reporting requirements

Component	National pollutant inventory
Acetic acid - 64-19-7	10 tonne/yr. Threshold category 1

### 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	<b>ENCS</b>	ISHL	IECSC	KECL
Water	X	X	231-791-2	-	X	Х	-	X	Х		X	KE-35400
Acetic acid	Х	Х	200-580-7	-	Х	Х	-	Х	Х	Х	Х	Х
Sodium fluoride	X	X	231-667-8	-	X	Х	-	Х	Х	Х	Х	KE-31540

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
Acetic acid - 64-19-7	Annex I - Y34	Y34 solid or solution

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
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable

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Acetic acid	64-19-7	Listed	Not applicable	Not applicable	Not applicable
Sodium fluoride	7681-49-4	Listed	Not applicable	Not applicable	Not applicable

### 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	
Acetic acid	-	Use restricted. See entry 75.	-
		(see link for restriction details)	
Sodium fluoride	-	Use restricted. See entry 75.	-
		(see link for restriction details)	

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

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

nd 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
Cn basis of test data
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.

Revision Date 12-Mar-2025

**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).

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**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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