

# SAFETY DATA SHEET

### Section 1 - Identification

Product Name	Buffer solution pH 4.0 clear
Product Code	AJA8180
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	auinfo@thermofisher.com

Recommended Use

Laboratory chemicals.

### Section 2 - Hazard(s) Identification

#### **Classification under Safe Work Australia**

Classified as not hazardous according to criteria of Safe Work Australia. Concentration below cutoff.

Physical hazards
No hazards identified

Health hazards No hazards identified

Environmental hazards No hazards identified

Label Elements

Other information

No information available

### Section 3 - Composition and Information on Ingredients

Component	CAS-No	Weight %
Water	7732-18-5	60-100
Potassium Hydrogen Phthalate	877-24-7	<10
Sodium azide	26628-22-8	<0.1

### Section 4 - First Aid Measures

Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Self-Protection of the First Aider	No special precautions required.
First Aid Facilities	Eyewash, safety shower and washroom.
Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically.

### Section 5 - Fire Fighting Measures

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### 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.

#### 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. Avoid dust formation. **Environmental Precautions** Should not be released into the environment.

### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. **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. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

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

Keep container tightly closed in a dry 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)] 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, Third edition. Published 2018. **DE** - MAK and BAT values of Hazardous Chemical Compounds in the Work Area. Published by German Research Foundation on July 1, 2011

Component	Australia	New Zealand WEL	ACGIH TLV	The United Kingdom	Germany
Sodium azide	CL 0.11 ppm (0.3 mg/m³)	Ceiling: 0.11 ppm Ceiling: 0.29 mg/m <sup>3</sup>	Ceiling: 0.29 mg/m <sup>3</sup> Ceiling: 0.11 ppm	Skin TWA 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup>	MAK 0.2 mg/m <sup>3</sup> (inhalable)

#### **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** 

None under normal use conditions.

Personal protective eq Eye Protection	Wear sa		de shields (or goggles)(/ ors for Industrial application	Australian/New Zealand Standard ons)
Hand Protection	Protectiv	ve gloves		
Glove material Natural rubber Nitrile rubber	Breakthrough time See manufacturers recommendations	Glove thickness	AUS/NZ Standard AS/NZS 2161.1	Glove comments (minimum requirement)

PVC Inspect gloves before use.

Neoprene

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:	Particle filter (or AUS/NZ equivalent)
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

### Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Physical State	Clear Solution	
Odor Odor Threshold pH Melting Point/Range Softening Point Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Explosion Limits	No information available No data available 4 No data available No data available Not applicable Not applicable No data available No information available No data available	Method - No information available
Vapor Pressure Vapor Density Specific Gravity / Density	No data available No data available No data available	(Air = 1.0)
Bulk Density Water Solubility Solubility in other solvents	No data available Soluble in water No information available	
Partition Coefficient (n-octanol/wa Autoignition Temperature Decomposition Temperature Viscosity Explosive Properties Oxidizing Properties	No data available No data available No data available No data available No information available 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	Heat, flames and sparks.	
Hazardous Decomposition Products None under normal use conditions.		

Hazardous Polymerization No information available.

## Section 11 - Toxicological Information

#### Information on Toxicological Effects

Product Information (a) acute toxicity;	
Oral	Based on available data, the classification criteria are not met
Dermal	Based on available data, the classification criteria are not met
Inhalation	Based on available data, the classification criteria are not met

#### Toxicology data for the components

	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
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Water	
Potassium Hydrogen Phthalate	LD50 > 3200 mg/kg (Rat)
Sodium azide	LD50 = 27 mg/kg (Rat) -
(b) skin corrosion/irritation;	No data available
<ul> <li>(c) serious eye damage/irritation;</li> <li>(d) respiratory or skin sensitization;</li> </ul>	
Respiratory Skin	No data available No data available
(e) germ cell mutagenicity;	No data available
(f) carcinogenicity;	No data available
(g) reproductive toxicity; (h) STOT-single exposure;	There are no known carcinogenic chemicals in this product No data available No data available
(i) STOT-repeated exposure;	No data available
Target Organs (j) aspiration hazard;	No information available. No data available

Symptoms / effects,both acute and No information available delayed

### Section 12 - Ecological Information

#### Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox			
Sodium azide	LC50: = 0.7 mg/L, 96h						
	(Lepomis macrochirus)						
	LC50: = 0.8 mg/L, 96h						
	(Oncorhynchus mykiss)						
	LC50: = 5.46 mg/L, 96h						
	flow-through						
	(Pimephales promelas)						
Persistence and Degradability							
Persistence	Soluble in water, Persistence is unlikely, based on information available.						
Bioaccumulative Potential	Bioaccumulation is unlikely						
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 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	Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

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**Other Information** 

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

### Section 14 - Transport Information

IMDG/IMO

Not regulated

ADG

Not regulated

Component	Hazchem Code
Sodium azide	2XE
26628-22-8 ( <0.1 )	
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

International Inventories

X = listed

Component	AICS	NZIoC	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	KECL
Water	Х	Х	231-791-	-	Х	Х	-	Х	Х	Х	KE-3540
			2								0
Potassium Hydrogen Phthalate	Х	Х	212-889-	-	Х	Х	-	Х	Х	Х	KE-0231
			4								0
Sodium azide	Х	Х	247-852-	-	Х	Х	-	Х	Х	Х	KE-3135
			1								7

Standard for the Uniform Scheduling of Medicines and

Poisons

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

### **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 5433:2012 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

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 and Rail
 OECD - Organisation for Economic Co-operation and Development
 LC50 - Lethal Concentration 50%
 ATE - Acute Toxicity Estimate

WEL - Workplace Exposure Limit DNEL - Derived No Effect Level POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative VOC (volatile organic compound) RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration BCF - Bioconcentration factor PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data 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 hazardsOn basis of test dataHealth HazardsCalculation methodEnvironmental hazardsCalculation method

#### Training Advice

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

Revision Date04-Jul-2020Revision SummaryNot applicable.

### This safety data sheet complies with the requirements of Safe Work Australia WHS Regulation

#### 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**