



## Safety Data Sheet

Date of Issue: 11.09.2020

Date of Expiry: 11.09.2025

### 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name: : **ECP Limited**  
Address: : PO Box 34125, Birkenhead, Auckland 0746  
Telephone: : +64 9 480 4386  
Facsimile: : +64 9 480 4385  
Emergency phone number: : 0800 243 622 (24 hours)

<b>Product</b>	<b>Buffer pH 7</b>	<b>Code</b>	<b>15901</b>
----------------	--------------------	-------------	--------------

**Recommended use** : Laboratory Investigations

### 2: Hazards identification

New Zealand:

Not classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.

Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.

### 3: Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Potassium dihydrogen orthophosphate	7778-77-0	<10 %
	Sodium Hydroxide	1310-73-2	<0.5 %
	Sodium Azide	26628-22-8	<0.1 %
	Water	7732-18-5	60-100 %

### 4: First aid measures

#### Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.

#### Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.

#### Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

#### Eye

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.

#### First Aid Facilities

Eyewash and normal washroom facilities.

### **Advice to Doctor**

Treat symptomatically.

### **Other Information**

For advice in an emergency, contact Poisons Information Centre (Australia 131 126; New Zealand 0800 POISON / 0800 764 766) or a doctor.

## **5: Firefighting measures**

### **Suitable Extinguishing Media**

Use appropriate fire extinguisher for surrounding environment.

### **Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes.

### **Specific Hazards**

Non-combustible liquid. Product containers may rupture when exposed to heat under fire conditions.

### **Precautions in connection with Fire**

Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Water spray may be used to keep fire exposed containers cool.

## **6: Accidental release measures**

### **Emergency Procedures**

Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. If possible, contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

## **7: Handling and storage**

### **Precautions for Safe Handling**

Avoid breathing in mists or vapours. Wear appropriate protection to avoid exposure. Practice good personal hygiene, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

### **Conditions for Safe Storage**

Store in a cool, dry well-ventilated area away from heat and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

### **Corrosiveness**

Not corrosive to aluminium.

## **8: Exposure controls/personal protection**

### **National Exposure Standards**

No value assigned for this specific material by the Australian National Occupational Health and Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the available exposure limits on the ingredients are as follows:

Australian National Occupational Health and Safety Commission (NOHSC) Exposure Standards:  
Substance TWA STEL

ppm mg/m<sup>3</sup> ppm mg/m<sup>3</sup>

Sodium Azide 0.11 0.3 (peak limitation) - -

Sodium Hydroxide - 2 (peak limitation) - -

New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:

Substance TWA STEL  
ppm mg/m<sup>3</sup> ppm mg/m<sup>3</sup>  
Sodium Azide 0.11 0.3(Ceiling) - -  
Sodium Hydroxide - 2 (Ceiling) - -

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday.

Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

Ceiling: A concentration that should not be exceeded during any part of the working day.

### Biological Limit Values

No biological limits allocated.

### Engineering Controls

Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

### Respiratory Protection

If engineering controls are not effective in controlling airborne exposure, then an approved respirator with a replaceable mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### Eye Protection

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

### Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### Body Protection

Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## 9: Physical and chemical properties

Appearance	:	Colourless solution or green colour-coded solution.
Odour	:	Not available
Melting Point	:	Not applicable
Boiling Point	:	Not available
Solubility in Water	:	Soluble
Specific Gravity	:	Not available
pH Value	:	7.0
Vapour Pressure	:	Not available

Vapour Density (Air=1)	:	Not available
Flash Point	:	Not applicable
Flammability	:	Non-combustible
Auto-Ignition Temperature	:	Not available
Flammable Limits – Lower	:	Not applicable
Flammable Limits – Upper	:	Not applicable

## 10: Stability and reactivity

### Chemical Stability

Stable under normal conditions of use.

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes.

### Hazardous Polymerization

Will not occur.

## 11: Toxicological information

### Toxicology Information

No toxicity data are available for this specific product. The available data for the ingredients are as follows:

Sodium Azide:

LD50 (Oral, Rat): 27 mg/kg

LD50 (Dermal, Rat): 50 mg/kg

LC50 (Inhalation, Rat): 37 mg/m<sup>3</sup>

### Inhalation

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

### Ingestion

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

### Skin

May cause redness, itching and irritation.

### Eye

May be irritating to eyes. The symptoms may include redness, itching and tearing.

### Chronic Effects

No known effects.

## 12: Ecological information

<b>Ecotoxicity</b>	:	No ecological data are available for this material.
<b>Persistence / Degradability</b>	:	Not available
<b>Mobility</b>	:	Not available
<b>Environment Protection</b>	:	Avoid contaminating waterways.

### 13: Disposal considerations

#### **Product Disposal:**

This product can be disposed through a licensed commercial waste collection service, in accordance with applicable local and national regulations. This product is non-hazardous and therefore the New Zealand HSNO regulations regarding disposal do not apply. It can be disposed in a licensed landfill facility.

#### **Container Disposal:**

The product is non-hazardous, therefore, the packaging may be re-used or recycled if it has been treated to remove any residual contents of the substance. Any wash-off water from the container cleaning process should be sent to a suitable waste water treatment plant before discharge into the environment.

In New Zealand, the packaging (that may or may not contain any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

### 14: Transport Information Table

**New Zealand:** Not classified as Dangerous Goods for transport according to the NZS 5433:2007 Transport of Dangerous Goods on Land.

### 15: Regulatory information

#### **National and or International Regulatory Information**

##### **New Zealand:**

Not classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempted.

### 16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

---

\*\*\*END\*\*\*\*\*END\*\*\*\*\*END\*\*\*\*\*END\*\*\*\*\*END\*\*\*\*\*END\*\*\*