## ROWE SCIENTIFIC

Chemwatch: 5148-87 Version No: 7.1

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **12/08/2024** Print Date: **13/08/2024** L.GHS.AUS.EN.E

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

### Product Identifier

Product name	Rowe Scientific Picric acid buffer reagent
Chemical Name	Not Applicable
Synonyms	CP0038
Chemical formula	Not Applicable
Other means of identification	Not Available

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Laboratory chemical. Use according to manufacturer's directions.
	Use according to manufacturer's directions.

### Details of the manufacturer or supplier of the safety data sheet

Registered company name	ROWE SCIENTIFIC
Address	11 Challenge Boulevard Wangara WA 6065 Australia
Telephone	+61 8 9302 1911
Fax	+61 8 9302 1905
Website	https://rowe.com.au/
Email	rowewa@rowe.com.au

### Emergency telephone number

Association / Organisation	ROWE SCIENTIFIC
Emergency telephone numbers	+61 8 9302 1911 (24 Hrs)
Other emergency telephone numbers	Not Available

### **SECTION 2 Hazards identification**

### Classification of the substance or mixture

Poisons Schedule	S5
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

### Label elements

Warning
Causes skin irritation.
Causes serious eye irritation.

### Precautionary statement(s) Prevention

P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.

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### **Rowe Scientific Picric acid buffer reagent**

P362+P364 Tak

Take off contaminated clothing and wash it before reuse.

### Precautionary statement(s) Storage

Not Applicable
Precautionary statement(s) Disposal

Not Applicable

### SECTION 3 Composition / information on ingredients

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
1330-43-4	<3	sodium borate anhydrous (Na2B4O7)
1310-73-2	<2	sodium hydroxide
3324-58-1	<1	sodium picrate
7578-43-0	<1	diethylenetriaminepentaacetic acid sodium salt
497-19-8	<1	sodium carbonate
7732-18-5	>90	water
Legend:	1. Classified by Chemwatch; 2. Classification drawn from C&L	. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. * * EU IOELVs available

### **SECTION 4 First aid measures**

Description of first aid measur	es
Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 Firefighting measures**

### Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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### Advice for firefighters

Fire/Explosion Hazard D ca	<ul> <li>Non combustible.</li> <li>Not considered to be a significant fire risk.</li> <li>Expansion or decomposition on heating may lead to violent rupture of containers.</li> <li>Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Decomposes on heating and produces toxic fumes of: arbon dioxide (CO2)</li> <li>itrogen oxides (NOx)</li> </ul>
HAZCHEM	lot Applicable

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### Rowe Scientific Picric acid buffer reagent

### **SECTION 6 Accidental release measures**

Personal precautions, protective equipment and emergency procedures See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Minor hazard.</li> <li>Clear area of personnel.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment as required.</li> <li>Prevent spillage from entering drains or water ways.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.</li> <li>Wash area and prevent runoff into drains or waterways.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>When handling DO NOT eat, drink or smoke.</li> <li>Always wash hands with scap and water after handling.</li> <li>Avoid physical damage to containers.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

Conditions for safe storage, including any incompatibilities

• •	
Suitable container	<ul> <li>Glass container is suitable for laboratory quantities</li> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

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

### **Control parameters**

### Occupational Exposure Limits (OEL)

INGREDIENT DATA	
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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	sodium borate anhydrous (Na2B4O7)	Borates, tetra, sodium salts (decahydrate)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	sodium borate anhydrous (Na2B4O7)	Borates, tetra, sodium salts (pentahydrate)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	sodium borate anhydrous (Na2B4O7)	Borates, tetra, sodium salts (anhydrous)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	sodium hydroxide	Sodium hydroxide	Not Available	Not Available	2 mg/m3	Not Available

### Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
sodium borate anhydrous (Na2B4O7)	6 mg/m3	190 mg/m3	1,100 mg/m3
sodium borate anhydrous (Na2B4O7)	6 mg/m3	88 mg/m3	530 mg/m3
sodium hydroxide	Not Available	Not Available	Not Available
sodium carbonate	7.6 mg/m3	83 mg/m3	500 mg/m3

Ingredient	Original IDLH	Revised IDLH	
sodium borate anhydrous (Na2B4O7)	Not Available	Not Available	
sodium hydroxide	10 mg/m3	Not Available	
sodium picrate	Not Available	Not Available	
diethylenetriaminepentaacetic acid sodium salt	Not Available	Not Available	
sodium carbonate	Not Available	Not Available	
water	Not Available	Not Available	
Occupational Exposure Banding	I		
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
sodium picrate	E	≤ 0.01 mg/m³	
sodium carbonate	E	≤ 0.01 mg/m³	

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

### MATERIAL DATA

Notes:

Exposure controls	
Appropriate engineering controls	General exhaust is adequate under normal operating conditions.
Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

## Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

Forsberg Clothing Performance Index". The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Rowe Scientific Picric acid buffer reagent

Material	CPI
BUTYL	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
IATURAL+NEOPRENE	С
EOPRENE	С
EOPRENE/NATURAL	С
IITRILE	С
ITRILE+PVC	С
E	С
E/EVAL/PE	С
/A	С
/C	С
ARANEX-23	С
ARANEX-23 2-PLY	С
EFLON	С
TON	C
ITON/CHLOROBUTYL	С

### **Respiratory protection**

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	-AUS P2	-	-PAPR-AUS / Class 1 P2
up to 50 x ES	-	-AUS / Class 1 P2	-
up to 100 x ES	-	-2 P2	-PAPR-2 P2 ^

### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final

selection must be based on detailed observation. - \* Where the glove is to be used on a short term, casual or infrequent basis, factors

such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified

practitioner should be consulted.

### **SECTION 9 Physical and chemical properties**

### Information on basic physical and chemical properties

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Appearance	Clear liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

### **SECTION 11 Toxicological information**

### Information on toxicological effects

Inhaled	Not normally a hazard due to non-volatile nature of proc	luct	
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.		
Skin Contact	individuals following direct contact, and/or produces sig hours, such inflammation being present twenty-four hou after prolonged or repeated exposure; this may result in skin redness (erythema) and swelling (oedema) which r	the material either produces inflammation of the skin in a substantial number of inficant inflammation when applied to the healthy intact skin of animals, for up to four irs or more after the end of the exposure period. Skin irritation may also be present a form of contact dermatitis (nonallergic). The dermatitis is often characterised by nay progress to blistering (vesiculation), scaling and thickening of the epidermis. At a of the spongy layer of the skin (spongiosis) and intracellular oedema of the s condition	
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.		
Chronic	Limited evidence suggests that repeated or long-term o biochemical systems.	ccupational exposure may produce cumulative health effects involving organs or	
Rowe Scientific Picric acid	τοχιςιτγ	IRRITATION	

	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
sodium borate anhydrous (Na2B4O7)	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Not Available
(11220407)	Oral (Rat) LD50: 2403-4207 mg/kg <sup>[2]</sup>	
	тохісіту	IRRITATION
	Dermal (rabbit) LD50: 1350 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.05 mg/24h SEVERE
	Oral (Rabbit) LD50; 325 mg/kg <sup>[1]</sup>	Eye (rabbit):1 mg/24h SEVERE
sodium hydroxide		Eye (rabbit):1 mg/30s rinsed-SEVERE
		Eye: adverse effect observed (irritating) <sup>[1]</sup>
		Skin (rabbit): 500 mg/24h SEVERE
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>
sodium picrate	тохісіту	IRRITATION
sodium picrate	Not Available	Not Available
diethylenetriaminepentaacetic	тохісіту	IRRITATION
acid sodium salt	Not Available	Not Available
	тохісіту	IRRITATION
	dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg/24h moderate
	Oral (Rat) LD50: 2800 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg/30s mild
sodium carbonate		Eye (rabbit): 50 mg SEVERE
		Eye: adverse effect observed (irritating) <sup>[1]</sup>
		Skin (rabbit): 500 mg/24h mild
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	тохісіту	IRRITATION
water	Oral (Rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

SODIUM BORATE ANHYE	0ROUS 2B407)	Reproductive effector in rats Mutagenic towa	rds bacteria	
SODIUM HYDR	OXIDE	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) thickening of the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration.		
SODIUM CARB	ONATE	for sodium carbonate: Sodium carbonate has no or a low skin irritation potential but it is considered irritating to the eyes. Due to the alkaline properties an irritation of the respiratory tract is also possible. No valid animal data are available on repeated dose toxicity studies by oral, dermal, inhalation or by other routes for sodium carbonate. A repeated dose inhalation study, which was not reported in sufficient detail, revealed local effects on the lungs which could be expected based on the alkaline nature of the compound. Under normal handling and use conditions neither the concentration of sodium in the blood nor the pH of the blood will be increased and therefore sodium carbonate is not expected to be systemically available in the body. It can be stated that the substance will neither reach the foetus nor reach male and female reproductive organs, which shows that there is no risk for developmental toxicity and no risk for toxicity to reproduction. This was confirmed by a developmental study with rabbits, rats and mice. An <i>in vitro</i> mutagenicity test with bacteria was negative and based on the structure of sodium carbonate no genotoxic effects are expected. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the epidermis.		
SODIUM BORATE ANHYDROUS (NA2B407) & SODIUM HYDROXIDE & SODIUM CARBONATE SODIUM CARBONATE ANHYDROXIDE & SODIUM CARBONATE SODIUM CARBONATE		h can occur after exposure to high levels of highly evious airways disease in a non-atopic individual, a documented exposure to the irritant. Other h tests, moderate to severe bronchial ocytic inflammation, without eosinophilia. RADS lated to the concentration of and duration of disorder that occurs as a result of exposure due to		
SODIUM PICRATE & DIETHYLENETRIAMINEPENTAACETIC ACID SODIUM SALT & WATER		No significant acute toxicological data identif	ied in literature search.	
Acute Toxicity	×		Carcinogenicity	×
Skin Irritation/Corrosion	×		Reproductivity	×

Serious Eye Damage/Irritation	*	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Legend: 🛛 🗙 – Data either not a	available or does not fill the criteria for classification

Data evailable to make classification

### **SECTION 12 Ecological information**

Toxicity

Rowe Scientific Picric acid buffer reagent	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	1900mg/l	4
sodium borate anhydrous (Na2B4O7)	EC50(ECx)	96h	Algae or other aquatic plants	2.6- 21.8mg/l	4
	EC50	96h	Algae or other aquatic plants	2.6- 21.8mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	34.59- 47.13mg/l	4
sodium hydroxide	EC50(ECx)	48h	Crustacea	34.59- 47.13mg/l	4
	LC50	96h	Fish	144- 267mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Source
sodium picrate	Not Available	Not Available	Not Available	Not Available	Not Available
lieth den striem in en ente se stie	Endpoint	Test Duration (hr)	Species	Value	Source
liethylenetriaminepentaacetic acid sodium salt	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>800mg/l	2
sodium carbonate	EC50	48h	Crustacea	156.6- 298.9mg/l	4
	LC50	96h	Fish	300mg/l	2
	EC50	96h	Algae or other aquatic plants	242mg/L	4
	NOEC(ECx)	48h	Fish	0.011mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
water	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Ecotox databas		CHA Registered Substances - Ecotoxicological Informa C Aquatic Hazard Assessment Data 6. NITE (Japan) - E		

DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium hydroxide	LOW	LOW
sodium picrate	HIGH	HIGH
sodium carbonate	LOW	LOW
water	LOW	LOW

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
sodium hydroxide	LOW (LogKOW = -3.8796)
sodium picrate	LOW (LogKOW = 1.5436)
sodium carbonate	LOW (LogKOW = -0.4605)

### Mobility in soil

Ingredient	Mobility
sodium hydroxide	LOW (Log KOC = 14.3)

Ingredient	Mobility
sodium picrate	LOW (Log KOC = 1834)
sodium carbonate	HIGH (Log KOC = 1)

### **SECTION 13 Disposal considerations**

Waste treatment methods		
Product / Packaging disposal	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>	

### **SECTION 14 Transport information**

### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

### Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
sodium borate anhydrous (Na2B4O7)	Not Available
sodium hydroxide	Not Available
sodium picrate	Not Available
diethylenetriaminepentaacetic acid sodium salt	Not Available
sodium carbonate	Not Available
water	Not Available

### 14.7.3. Transport in bulk in accordance with the IGC Code

Ship Type
Not Available

### **SECTION 15 Regulatory information**

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

sodium borate anhydrous (Na2B4O7) is found on the following regulatory lists

# Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4 Australian Inventory of Industrial Chemicals (AIIC) Chemical Footprint Project - Chemicals of High Concern List sodium hydroxide is found on the following regulatory lists Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 10 / Appendix C Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 10 / Appendix C Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australia Inventory of Industrial Chemicals (AIIC) sodium picrate is found on the following regulatory lists Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals dustralia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals diethylenetriaminepentaacetic acid sodium salt is found on the following regulatory lists Australia Inventory of Industrial Chemicals (AIIC)

sodium carbonate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 10 / Appendix C Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australia Inventory of Industrial Chemicals (AIIC)

### water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

### Additional Regulatory Information

Not Applicable

### **National Inventory Status**

National Inventory	Status		
Australia - AIIC / Australia Non- Industrial Use	No (sodium picrate)		
Canada - DSL	No (sodium picrate; diethylenetriaminepentaacetic acid sodium salt)		
Canada - NDSL	No (sodium borate anhydrous (Na2B4O7); sodium hydroxide; diethylenetriaminepentaacetic acid sodium salt; sodium carbonate; water)		
China - IECSC	No (sodium picrate)		
Europe - EINEC / ELINCS / NLP	No (diethylenetriaminepentaacetic acid sodium salt)		
Japan - ENCS	No (sodium picrate; diethylenetriaminepentaacetic acid sodium salt)		
Korea - KECI	No (diethylenetriaminepentaacetic acid sodium salt)		
New Zealand - NZIoC	No (sodium picrate; diethylenetriaminepentaacetic acid sodium salt)		
Philippines - PICCS	No (sodium picrate; diethylenetriaminepentaacetic acid sodium salt)		
USA - TSCA	No (diethylenetriaminepentaacetic acid sodium salt)		
Taiwan - TCSI	No (sodium picrate)		
Mexico - INSQ	No (sodium picrate; diethylenetriaminepentaacetic acid sodium salt)		
Vietnam - NCI	No (sodium picrate; diethylenetriaminepentaacetic acid sodium salt)		
Russia - FBEPH	No (sodium picrate; diethylenetriaminepentaacetic acid sodium salt)		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

### **SECTION 16 Other information**

Revision Date	12/08/2024
Initial Date	28/08/2014

### **SDS Version Summary**

Version	Date of Update	Sections Updated
6.1	10/03/2023	Classification change due to full database hazard calculation/update.
7.1	12/08/2024	Hazards identification - Classification, Identification of the substance / mixture and of the company / undertaking - Use

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit.
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
   TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AlIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers

- ENCS: Existing and New Chemical Substances Inventory
   KECI: Korea Existing Chemicals Inventory
- NZIOC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
   INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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