



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL RAYNOX WATER SOFTENER
Other Names: None
Chemical Group: Alkaline salts
CAS No.:
Recommended Use: For adjusting the hardness of spray water prior to using Raynox Sunburn Protectant..
Supplier Details: Colin Campbell (Chemicals) Pty Ltd ABN 29 000 045 590
5 Blackfriar Place
Wetherill Park NSW 2164
Telephone: (02) 9725 2544
Fax: (02) 9604 7768
Email: cccsyd@campbellchemicals.com.au
Website: www.campbellchemicals.com.au
Contact: Product Development Manager – (02) 9725 2544
Emergency Telephone Number: (02) 9725 2544 – 8am to 6pm Monday to Friday.

2) HAZARDS IDENTIFICATION

GHS classification: Physical hazard, CORROSIVE Category 1
Acute oral toxicity Category 4
Acute inhalation toxicity Category 4
Skin corrosion/irritation Category 2
Eye damage/irritation Category 1
Carcinogenicity Category 2
Specific target organ toxicity (repeated exposure) Category 2

Signal Words: DANGER

Hazard Statements : H290 May be corrosive to metals
H302 Harmful if swallowed
H332 Harmful if inhaled.
H315 Causes skin irritation
H318 Causes serious eye damage
H351 Suspected of causing cancer.
H373 May cause damage to organs (respiratory system) through prolonged or repeated exposure.

General Precautionary Statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children
P103 Read label before use.



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Pictograms :



Precautionary statements Prevention:

P234 Keep only in original container.
P260 Do not breathe mists.
P261 Avoid breathing dust, fumes, gas, mist, vapours or spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear impermeable clothing, safety goggles or face shield and chemical resistant gloves.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

Precautionary statements Response:

P390 Absorb spillage to prevent material damage.
P301+P312 IF SWALLOWED : Call a POISONS CENTRE or doctor if you feel unwell.
P330 : Rinse mouth.
P312 Call a Poisons Information Centre if you feel unwell.
P302+P352 IF ON SKIN : Wash with plenty of soap and water.
P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs : Get medical advice/attention.
P314 IF INHALED: Get medical attention if you feel unwell.
P310 Immediately call a POISONS CENTRE or doctor for medical advice.
P321 Specific treatments see Section 4 First Aid Measures.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 If exposed or concerned: Get medical advice/attention.

Storage :

P406 Store in corrosive resistant container with a resistant inner liner.
P405 Store locked up.

Disposal:

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

Other information :

Dangerous good.
Hazardous substance.

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Tetrasodium ethylenediamine tetraacetate	64-02-8	37-41%
Sodium hydroxide	1310-73-2	0.5-1.9%
Proprietary ingredients	-	Balance



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4) FIRST AID MEASURES

**If poisoning occurs, move out of dangerous area immediately contact a doctor or Poison Information Centre (Ph: 13 11 26) and follow the advice given.
Show this Safety Data Sheet to the doctor.**

If inhaled:	Move to fresh air and keep at rest. If person is not breathing, call a doctor and then give artificial respiration, preferably mouth-to-mouth, if possible..
In case of skin contact:	Carefully remove contaminated clothing and shoes immediately. Wash affected areas with mild soap and plenty of water. If redness, burning or irritation persists, get medical attention. Wash contaminated clothing before reuse.
In case of eye contact:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Check and remove any contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Protect unharmed eye. Get medical attention
If swallowed:	Call a POISONS CENTRE or doctor for treatment advice. Do not induce vomiting unless told to by a POISONS CENTRE or doctor. Do not give anything by mouth to an unconscious person.
First Aid facilities	Ensure eye wash and safety shower are available.
Medical Attention:	There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Maintain adequate ventilation and oxygenation of the patient. Chemical eye burns may require extended irrigation. Obtain a prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. It is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as : gastric lavage after endotracheal intubation.)

5) FIRE FIGHTING MEASURES

Extinguishing media	Not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use high volume water jet. Water spray may be used to keep fire exposed containers cool.
Hazard from combustion products	Hazardous combustion products include carbon oxides and nitrogen oxides. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Follow all label precautions.
Precautions for fighting fires	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If



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it can be done safely remove intact containers from the fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire residues and contaminated fire extinguishing water in accordance with local regulations. Do not release contaminated water into the environment.

Hazchem Code

2X

6) ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. Do not smoke, eat or drink during the clean up process. Wear personal protective clothing and equipment as detailed in Section 8 PERSONAL PROTECTION. Keep people and animals away. Ensure adequate ventilation. Neutralise with acid. Contain spill and absorb with earth, sand, clay or other absorbent material. Prevent spilled material from entering drains or watercourses. Collect and store in properly labelled drums for safe disposal. Clean floor with a damp cloth and place it in the drum. Seal drums and label ready for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc is unavoidable warn the local water authority.

7) HANDLING AND STORAGE

Handling Keep out of reach of children. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist. Isolate from oxidisers, heat and open flame. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.

Storage Store in the tightly closed original container in a cool well ventilated area above 7°C. Store in corrosive resistant container with a resistant inner liner. Store in a locked room away from children, animals, food, animal feed, seed and fertilisers. Keep separated from strong oxidants, strong acid and metals.

8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards Sodium hydroxide CAS#1310-73-2
2mg/m³ Ceiling (OSHS 8-hr PEL, Cal/OSHA, NIOSH REL, ACGIH TLV)
Tetrasodium ethylenediamine tetraacetate CAS#64-02-8
No known exposure values (OSHS 8-hr PEL, ACGIH TLV)

Exposure standard – Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day working week.

Biological Limit Values None allocated

Engineering Controls Control process conditions to avoid contact. Local exhaust ventilation may be necessary to control air contaminants to their exposure limits. The use of mechanical ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.



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Personal Protective Equipment	Eyes:	Safety goggles. Eye wash bottle with pure water.
	Clothing:	Impermeable clothing buttoned to the neck and wrists and a washable hat.
	Gloves:	Polyvinyl alcohol or nitrile-butyl-rubber gloves. Before removing gloves clean them with soap and water.
	Respiratory:	Not normally required. If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance:	Light yellow liquid
Odour:	Amine
Vapour pressure:	Same as water
Relative vapour density:	0.67
Evaporation rate:	Not determined.
Boiling point:	106°C
Freezing/Melting point:	No data available.
pH:	11.0-11.8 (1% solution)
Solubility:	Miscible in water
Specific gravity:	1.31 (25°C)
Flash point:	Not available
Flammability (explosive) limit:	Not available
Auto ignition temperature:	No data available.
Partition coefficient (octanol/water):	No data available.
Viscosity:	No data available

10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use and storage.
Conditions to avoid:	None known.
Incompatible materials :	Strong oxidising agents, acids, heat and open flame. May react with soft metals such as aluminium to form flammable hydrogen gas.
Hazardous decomposition products:	Sodium oxide and hydrogen carbon dioxides, nitrogen oxides from extreme heat.
Hazardous reactions:	Stable under recommended storage conditions. No decomposition if used as directed.

11) TOXICOLOGICAL INFORMATION

Inhalation:	Irritates respiratory tract
Skin contact:	May cause skin irritation with local redness.



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Eye contact:	May cause severe irritation and serious eye damage. Corneal injury may result in permanent impairment of vision, even blindness.
Ingestion:	Can cause toxicity and tissue damage.
Chronic toxicity:	
Germ cell mutagenicity:	No data available
Carcinogenicity:	Contains traces of nitrilotriacetate, trisodium salt (NTA) CAS# 5064-31-3 listed by IARC as a possible carcinogen to humans (2B).
Reproductive toxicity:	Occasional workplace exposure is not expected to present a hazard.
Target organ effects:	May cause damage to target organs (lungs) (respiratory tract irritation). Repeated or excessive exposures may alter concentrations of metals in the body. In animals, effects have been reported on the following organs : kidney and urinary tract.
Aspiration hazard:	Aspiration into lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.
Potential health effects:	No other known potential health effects.
Acute toxicity:	
Oral toxicity (product):	LD ₅₀ >3030 mg/kg Estimate based on ingredients
Dermal toxicity (product):	LD ₅₀ >5000 mg/kg Estimate based on ingredients.
Inhalation toxicity:	LC ₅₀ >20 mg/L Estimate based on ingredients
Sensitisation:	Irritates respiratory tract. Can cause lung injury if ingested.

12) ECOLOGICAL INFORMATION

Harmful to aquatic life.

DO NOT contaminate streams, rivers or waterway with this product or the used containers.

Ecotoxicity:	LC-50 96-h (unspecified fish) >66 mg/L Estimate based on ingredients..
Environmental fate, persistence and degradability, mobility	No data available.
Identified harmful effects on environment:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic organisms.
Other precautions:	Do not contaminate dams, waterways or sewers with this product.



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13) DISPOSAL CONSIDERATIONS

This product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used containers. Triple or preferable pressure rinse containers before disposal. Add rinsings to the mixing tank. Do not dispose of undiluted chemical on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14) TRANSPORT INFORMATION

International regulation

UNRTDG

UN Number : Not applicable.
Proper shipping name: Not applicable.
Class and subsidiary risk: Not applicable.
Packing Group: Not applicable.
Labels Not applicable.

IATA-DGR

UN/ID No.: Not applicable.
Proper shipping name: Not applicable.
Class: Not applicable.
Packing group: Not applicable.
Labels: Not applicable.
Packing instruction (cargo aircraft): Not applicable.
Packing instruction (passenger aircraft): Not applicable.

IMDG-Code

UN number: Not applicable.
Proper shipping name: Not applicable.)
Class: Not applicable.
Packing group: Not applicable.
Labels: Not applicable.
EmS Code: Not applicable.
Marine pollutant: Not applicable.

ADG

UN number: 1719
Proper shipping name: CAUSTIC ALKALI LIQUID. N.O.S.(Sodium hydroxide, potassium hydroxide)
Class: 8
Packing group: II
Labels: 8



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Remarks: None

15) REGULATORY INFORMATION

None

16) OTHER INFORMATION

Date of revision : 1 December 2016
Reason for revision : Upgrading to GHS format.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

END OF SDS