

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Raynox<sup>®</sup> Water Softener  
**Product Code:** 10177  
**Product Use:** For Use with RAYNOX<sup>®</sup> and RAYNOX<sup>®</sup> AIRApple Sunburn Protectants  
**Supplier:** Pace International, LLC  
**Address:** 5661 Branch Road, Wapato, WA 98951  
**Phone Number:** 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)  
**Medical Emergency Phone Number:** 888-271-4649 (PROSAR)  
**Transportation Emergency Phone Number:** 800-424-9300 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

**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

**Hazard Symbol :**



**Hazard Statements:**  
DANGER  
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.

**Precautionary Statements:**

**Preventative Statements:**

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

**Response Statements:**

P390 Absorb spillage to prevent material damage.  
P301/P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P330 Rinse mouth.  
P304/P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell due to inhalation.  
P302/352 IF ON SKIN: Wash with plenty of soap and water.  
P321 Specific treatments see Section 4 First Aid Measures.  
P332/313 If skin irritation occurs: Get medical advice/attention.  
P362/364 Take off contaminated clothing and wash it before reuse.  
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/doctor for medical advice.  
P308/313 If exposed or concerned: Get medical advice/attention.  
P314 IF INHALED: Get medical advice/attention if you feel unwell.

**Storage Statements:**

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

**Disposal Statements:**

P501 Dispose of contents / container should be made in accordance with applicable regional, national, and local laws and regulations.



**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Ingredient</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Water	7732-18-5	53 – 59 %
Tetrasodium ethylenediamine tetraacetate	64-02-8	37 – 41 %
NTA Trisodium	5064-31-3	0.5 – 2.0 %
Sodium Hydroxide	1310-73-2	0.5 – 1.9 %
Ethylenediaminetriacetic acid, Trisodium	19019-43-3	< 0.8 %
Proprietary ingredients		Balance

**4. FIRST AID MEASURES**

**General** Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.

**Advice:** center or physician, or going for treatment.

**If on Skin:** Take off contaminated clothing. Wash skin with plenty of soap and water. If redness, burning, or irritation persists, get medical advice/attention. Wash contaminated clothing before reuse.

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical advice/attention.

**If Swallowed:** Call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.

**Notes to Physician:** 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:** Use water spray, carbon dioxide, dry chemical, foam. Do not use high volume water jet. Water spray may be used to keep fire exposed containers cool.

**Special Exposure Hazards:** 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!

**Special Protective Equipment / Procedures for Firefighters:** Wear self-contained breathing equipment and full bunker gear, gloves, rubber boot and helmet with face shield.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear impermeable clothing, chemical resistant gloves, safety goggles or face shield.

**Environmental Precautions:** In case of spill isolate area and deny entry to unnecessary personnel. Do not allow product to enter sewers, lakes, streams or other bodies of water.

**Containment / Clean-Up Methods:** Stop spill at the source. Construct temporary dikes of dirt, sand, or other appropriate material to prevent spreading of the material. Neutralize with acid. Absorb spilled liquid with polypads or other suitable absorbent materials (sand, soil, silica gel, acid binder, universal binder, sawdust) and place in an appropriate container for disposal.

**7. HANDLING & STORAGE**

**Handling:** Do not breathe fume, gas, mist, vapors or spray. Isolate from oxidizers, heat, and open flame. Use only with adequate ventilation. Avoid contact with skin and eyes. Do not swallow. Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking are prohibited in the work area. For personal protection wear impermeable clothing, chemical resistant gloves, safety goggles or face shield.

**Storage:** Keep separated from strong oxidants, strong acids, and metals. Store in a cool, dry area at temperatures above 49°C/120°F. Do not handle or store near open flames or other sources of heat. Store in original container. Store in corrosive resistant container with a resistant inner liner. Keep container tightly closed when not in use. Keep out of reach of children and livestock. Store in locked location.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Limits:</b>	Tetrasodium ethylenediamine tetraacetate CAS# 64-02-8 No known exposure values TWA (OSHA), TLV (ACGIH) Sodium Hydroxide CAS# 1310-73-2 2 mg/m <sup>3</sup> PEL (OSHA), 2 ppm Ceiling (ACGIH), (NIOSH)
<b>Engineering Controls:</b>	Local exhaust ventilation maybe necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.
<b>Personal Protective Equipment :</b>	<b>Clothing:</b> Wear impermeable clothing and chemical resistant gloves when handling. <b>Eye Protection:</b> Wear safety goggles or face shield. Eye fountain and washing facilities should be present at work area. <b>Respiratory Protection:</b> Not normally required. A NIOSH-approved particulate respirator is recommended when working in a dusty or misty environment.



## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid	<b>Upper/Lower flammability limits:</b>	Not available
<b>Appearance:</b>	Light yellow	<b>Vapor pressure:</b>	Same as water
<b>Odor:</b>	amine	<b>Vapor density: (air =1)</b>	0.67
<b>Odor threshold:</b>	Not available	<b>Specific Gravity: (H<sub>2</sub>O = 1)</b>	1.31@ 25°C
<b>pH:</b>	11.0-11.8 (1% solution)	<b>Solubility:</b>	Miscible with water
<b>Melting/Freezing point:</b>	Not available	<b>Partition coefficient (n-octanol-water):</b>	Not available
<b>Boiling point:</b>	223°F (106°C)	<b>Auto-ignition temperature:</b>	Not available
<b>Flash point:</b>	Not available	<b>Decomposition temperature:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Viscosity:</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable		

## 10. STABILITY & REACTIVITY

<b>Reactivity hazards:</b>	None known
<b>Chemical stability:</b>	Stable at ambient conditions.
<b>Conditions to avoid:</b>	Strong oxidizing agents, heat and open flame. Contact with soft metals such as aluminum can generate flammable hydrogen gas.
<b>Incompatible materials:</b>	Aluminum, copper, copper alloys, nickel, hydrogen, zinc, strong oxidizing agents, organic materials, strong acids.
<b>Hazardous decomposition products:</b>	Sodium Oxide and hydroxide carbon oxides, nitrogen oxides from extreme heat.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	<b>Acute Oral:</b> LD <sub>50</sub> (estimate): > 3030 mg/kg <b>Acute Dermal:</b> LD <sub>50</sub> (estimate): > 5000 mg/kg <b>Inhalation:</b> LC <sub>50</sub> (estimate): > 20 mg/L	Based on Ingredients Based on Ingredients Based on Ingredients
<b>Skin corrosion/irritation:</b>	May cause skin irritation with local redness.	
<b>Eye damage/irritation:</b>	May cause severe irritation and serious eye damage. Corneal injury may result in permanent impairment of vision, even blindness.	
<b>Respiratory/Skin sensitization:</b>	Irritates respiratory tract. Can cause lung injury if ingested.	
<b>Germ cell mutagenicity:</b>	Not available	
<b>Carcinogenicity:</b>	Contains traces of Nitrotriacetate, Trisodium salt (NTA) CAS# 5064-31-3 listed by IARC as a possible carcinogenic to humans (2B).	
<b>Reproductive toxicity:</b>	Occasional workplace exposure is not expected to present a hazard.	
<b>Target organ effects:</b>	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.	
<b>Aspiration hazard:</b>	Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.	
<b>Potential health effects:</b>	No other known potential health effects.	



## 12. ECOLOGICAL INFORMATION

<b>Toxicity:</b>	LC <sub>50</sub> (96-hr) fish: > 100 mg/L (estimate)	Based on Ingredients
<b>Persistence/ degradability:</b>	This product is completely biodegradable.	
<b>Bioaccumulative potential:</b>	Potential is low (BCF < 100 Log Pow < 3)	
<b>Mobility in soil:</b>	No absorption is expected into soil due to ionic structure.	
<b>Other adverse effects:</b>	Not available	

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods:</b>	Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.
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## 14. TRANSPORT INFORMATION

	<u>DOT</u>	<u>IMDG</u>	<u>IATA</u>
<b>UN number:</b>	UN 3267	UN 3267	UN 3267
<b>Proper shipping name:</b>	Corrosive liquid, Basic, Organic, n.o.s. (Sodium Hydroxide)	Corrosive liquid, Basic, Organic, n.o.s. (Sodium Hydroxide)	Corrosive liquid, Basic, Organic, n.o.s. (Sodium Hydroxide)
<b>Hazard class(es):</b>	8	8	8
<b>Packing group:</b>	III	III	III
<b>Marine Pollutant:</b>	Not applicable		
<b>Special precautions:</b>	None		
<b>Exceptions:</b>	Containers of 5 liters or smaller are exempt from labeling, placarding and UN packaging requirements. The words "limited quantity" or "LTD QTY" must follow the shipping name on shipping papers.		

## 15. REGULATORY INFORMATION

<b>CA Prop. 65</b>	This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
<b>SARA 313:</b>	Contains no chemicals subject to SARA Title III Section 313 in quantities sufficient to trigger reporting requirements.
<b>TSCA:</b>	All components of this product are included or exempt from inclusion in EPA's Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
<b>WHMIS:</b>	This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

## 16. OTHER INFORMATION

<b>HMIS Ratings:</b>	<b>Health – 3</b>	<b>Flammability – 1</b>	<b>Reactivity – 0</b>
<b>NFPA Ratings:</b>			

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This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information is set forth on the labeling and the SDS.

<b>SDS preparation date:</b>	September 2, 2015	<b>Replaces MSDS dated:</b>	February 13, 2013
<b>Changes since last revision:</b>	New format to SDS		

