

## 1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-60-6196-001  
Product Type Calcium Buffer Solution

### Company Details:

RX MARINE INTERNATIONAL  
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## 2. Composition / Information on ingredients

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SARA 313 Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<small>Calcium Hydroxide</small>	<small>CAS# 1310-70-2</small>	15 - 17%	W/W	OSHA PEL 2 mg/m <sup>3</sup> ACGIH 2mg/m <sup>3</sup>
Water, Deionized ASTM Type II	<small>CAS# 7732-18-5</small>	73- 85%	W/W	None Established

## 3. Hazards Identification

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Causes severe irritation and burns. Harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep

Emergency Overview:Poison! Danger! Corrosive. May be fatal if swallowed. Harmful if inhaled. Causes burns to any area of contact. Reacts with water, acids and other materials.

Inhalation:Severe irritant. Effects from inhalation of mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur

Ingestion:Corrosive! Symptoms may include severe burns of mouth, throat, and stomach. Severe Scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure. Damage may appear days after exposure.

Skin:Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.

Eye Contact:Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that

Chronic Exposure:May result in permanent impairment of vision, even blindness.

Aggravated by Exposure:Prolonged contact with dilute solutions or dust has a destructive effect upon tissue.

Persons with pre-existing skin disorders or eye disease may be more susceptible to the Effects of this substance.

## 4. First Aid Measures

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Causes severe irritation and burns. Harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash

SKIN:

In case of contact, immediately flush skin with water for at least 15 minutes, removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse.

EYES:

Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, provide artificial respiration. If breathing is difficult, give oxygen

INGESTION:

Give several glasses of milk or water. Vomiting may occur spontaneously. Do not induce vomiting. INDUCE! Never give anything by mouth to an unconscious person.

## 5. Fire-fighting Measures

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Fire Extinguisher Type:

Water spray. Carbon dioxide. Dry chemical powder. Foam.

Fire/Explosion Hazard:

None

Fire Fighting Procedure:

Wear self-contained breathing apparatus and protective clothing to prevent contact with dust and fumes.

## 6. Accidental Release Measures

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Absorb spill with inert material, then place in a chemical waste container. Neutralize with a weak acid.

Ventilate area of Leak or Spill. Keep Unnecessary and Unprotected People away from the area of Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Contain and Recover Liquid when Possible. Do not Flush Caustic Residues to the Sewer. Residues from Spills can be Diluted with Water, Neutralized with Dilute Acid such as Acetic, Hydrochloric or Sulfuric. Absorb Neutralized Caustic Residue on Clay, Vermiculite, or other Inert Substance and Package in a Suitable Container for Disposal. US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

## 7. Handling and Storage

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Keep in tightly closed container. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling. Store above 40 deg F (10°C) to prevent freezing. Contents of this product may be hazardous when

## 8. Exposure controls and personal protection

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Respiratory Protection

NIOSH/MSHA-approved respirator empty. thoroughly

after handling. Keep container closed

Ventilation

Local

OTHER

Mechanical

Protective Gloves

NIOSH Approved Gloves

EYE PROTECTION

Splash Goggles or  
full face shield.

Other Protective Equipment

Wear appropriate clothing to prevent  
skin exposure

## 9. Physical and chemical properties

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BOILING POINT	Information not available
VAPOR PRESSURE	Information not available
MELTING POINT	Information not available
VAPOR DENSITY	Information not available
EVAPORATION RATE	Information not available
Appearance /Odors	Clear odorless liquid
Flash Point	Not applicable
Specific Gravity	~1.22

Percent Volatile by	8140%
Evaporation Standard	
Auto Ignition Temp	Not applicable
Lower Flamm. Limit in Air	Not applicable
Upper Flamm. Limit in Air	Not applicable

Solubility in Water Soluble

## 10. Stability and reactivity

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STABILITY	
CONDITIONS TO AVOID	Avoid contact with incompatible materials.
MATERIALS TO AVOID	<small>Acids, Oxidizable liquids, organic halogen acids, nitrocompounds</small>
HAZARDOUS DECOMPOSITION PRODUCTS	<small>Carbon dioxide, Residue of metals may contain HCl gas</small>
HAZARDOUS POLYMERIZATION	Will Not Occur
Conditions to Avoid	None known

## 11. Toxicological information

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NTP Carcinogen - Known: No, IARC Category- None

## 12. Ecological information

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No Information Found.

## 13. Disposal considerations

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Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport information

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DOT Classification: UN1824, Sodium Hydroxide Solution, 8, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

## 15. Regulatory information

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### Chemical Inventory Status

Part 1:Ingredient

Sodium Hydroxide (1310-73-2)

TSCA Yes  
EC Yes  
Japan yes  
Australia Yes

### Chemical Inventory Status

Part 2:Ingredient

Sodium Hydroxide (1310-73-2)

Korea Yes  
DSL Yes  
NDSL No  
Phil. Yes

### Federal, State & International Regulations

Part 1: Ingredient.

Sodium Hydroxide (1310-73-2)

RQ No  
TPQ NO  
List No  
Chemical Catg No

### Federal, State & International Regulations

Part 2:Ingredient

Hydrogen Chloride (7647-01-0)

Water (7732-18-5)

CERCLA 1000  
261.33 No  
8(d) No

Chemical Weapons Convention:No

TSCA 12 (b):No

CDTA:NO Mixture/Liquid)

SARA 311/312: Acute: Yes

Chronic: Yes

Fire: NO

Pressure: No

Reactivity: YES

Australian Hazchem Code: None

Poison Schedule: None allocated

## 16. Other information

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Conditions aggravated/target organs: Corrosive! Persons with pre- existing skin and eye disorders will be more susceptible. Acute: Skin and eye irritation or burns. Chronic: Dermatitis, eye damage.

Flammability

Health

Reactivity

Revisions

NFPA

7/30/2010

0.1 updated msds to 16 section from 10

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