

## 1. Product and Company Identification

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Product Name RXSOL-60-6188-250  
Product Type Hardness 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	Dimension	Exposure Limits
Ammonium Chloride	CAS# 12127-02-9	6.8%	W/V	None Established
Ammonium Hydroxide 28- 30% w/w	CAS# 1336-21-4	57.2%	V/V	None Established
Water, Deionized ASTM Type II	CAS# 7732- 18-5	36 %	V/V	None Established

## 3. Hazards Identification

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May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

Emergency Overview:Caution! May Cause Irritation to Skin and Eyes.

Inhalation:No Adverse Health Effects Expected from Inhalation.

Ingestion:Substance has Low Toxicity by Ingestion. Large Amounts May Cause Gastrointestinal Upset due to Osmotic Imbalance Caused by its ability to Sequester Metal Ions.

Skin:May Cause Irritation with Redness and Pain.

Eye Contact:May Cause Irritation, Redness and Pain.

Chronic Exposure:No Information Found.

Aggravated by Exposure:No Information Found.

## 4. First Aid Measures

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May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

**FIRST AID: SKIN:** Remove contaminated clothing. Wash exposed area with soap and water. If irritation persists, seek medical attention.

**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, give artificial respiration. If breathing is difficult, give oxygen

**INGESTION:** Give several glasses of milk or water. Vomiting may occur

## 5. Fire-fighting Measures

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Fire Extinguisher Type

Any means suitable for extinguishing surrounding fire

Fire/Explosion Hazard

Thermal decomposition produces highly toxic fumes.

Fire Fighting Procedure

Wear self-contained breathing apparatus and protective clothing to prevent contact with toxic and irritating.

## 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 area of

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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Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

## 8. Exposure controls and personal protection

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Respiratory Protection	NIOSH/MSHA-approved respirator
Ventilation	Local
OTHER	Mechanical
Protective Gloves	NIOSH Approved Gloves
EYE PROTECTION	Goggles and Face Shield
Other Protective Equipment	Wear appropriate clothing to prevent

## 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 liquid with ammonia
Flash Point	Not applicable
Specific Gravity	Information not available
Relative Volatile by	100
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	Stable
CONDITIONS TO AVOID	Avoid contact with incompatible materials.
Materials to Avoid	Strong oxidizers, halogen, bleach
Hazardous Decomposition Products:	Ammonia
Hazardous polymerization	Will Not Occur
Conditions to Avoid	None known

## 11. Toxicological information

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Carcinogenic References: IARC Category- None, NTP Carcinogen - Known: No

## 12. Ecological information

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This material is not expected to significantly bioaccumulate.

### 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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International (Water, IMO, IATA)

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Not Regulated

DOT Classification: UN2672, Ammonia Solution (with 10- 35% Ammonia), 8, PG III

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

Ammonium Hydroxide (1336-21-6)

Ammonium Chloride (12125-02-9)

TSCA Yes Yes

EC Yes Yes

Japan No Yes

Australia Yes Yes

Chemical Inventory Status

Part 2:Ingredient

Ammonium Hydroxide (1336-21-6)

Ammonium Chloride (12125-02-9)

Korea Yes Yes

DSL Yes Yes

NDSL NO No

Phil. Yes Yes

Federal, State & International Regulations

Part 1: Ingredient.

Ammonium Hydroxide (1336-21-6)

Ammonium Chloride (12125-02-9)

RQ NO No

TPQ NO NO

List NO No

Chemical Catg No No

Federal, State &  
International Regulations

Part 2:Ingredient

Ammonium Hydroxide (1336-21-6)

Ammonium Chloride (12125-02-9)

CERCLA 1000 5000

261.33 No No

8(d) No No

Chemical Weapons Convention:No

TSCA 12 (b):No

CDTA:NO

## 16. Other information

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Conditions aggravated/target organs: Corrosive! Harmful or fatal if inhaled or swallowed. Persons with preexisting skin, eye or respiratory disorders may be more susceptible. Acute: Extremely destructive to mucous membranes, upper respiratory tract, eyes and skin. May cause spasm, inflammation and edema of larynx and bronchi, pneumonitis and pulmonary edema. Chronic: Damage to

Health	Flammability	Reactivity
Revisions		NFPA
7/29/2010	0.1	updated msds to 16 section from 10 section msds. STN
5/9/2011	0.2	updated showing sec 14 info

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