

## 1. Product and Company Identification

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Product Code  
Product Name

RXSOL-60-6005-500  
Total Hardness 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
Ammonium Chloride	CAS# 12125- 02-9	6.8%	W/V	None Establishe
Ammonium Hydroxide 28-30% w/w	CAS# 1336- 21-6	57.2%	V/V	None Establishe
Water, Deionized ASTM Type II	CAS# 7732-18-5	36%	V/V	None Establishe

## 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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<b>SKIN:</b>	Remove contaminated clothing. Wash exposed area with soap and water. If irritation persists, seek medical attention.
<b>EYES:</b>	Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid.
<b>INHALATION:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen.
<b>INGESTION:</b>	Give several glasses of milk or water. Vomiting may occur.

## 5. Fire-fighting Measures

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<b>Fire Extinguisher Type:</b>	Any means suitable for extinguishing surrounding fire.
<b>Fire / Explosion Hazards:</b>	Thermal decomposition produces highly toxic fumes.
<b>Fire Fighting Procedure:</b>	Wear self-contained breathing apparatus and protective clothing to skin and clothing.

## 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 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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<b>Respiratory Protection:</b>	NIOSH/MSHA-approved respirator
<b>Ventilation:</b>	Local Mechanical
<b>Protective Gloves:</b>	NIOSH Approved Gloves
<b>Eye Protection:</b>	Goggles and Face Shield
<b>Other Protective Equipment:</b>	Wear appropriate clothing to prevent skin exposure

## 9. Physical and chemical properties

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<b>Melting Point:</b>	Information Not Available
<b>Boiling Point:</b>	Information Not Available
<b>Vapor Pressure:</b>	Information Not Available
<b>Vapor Density:</b>	Information Not Available
<b>Solubility in Water:</b>	Soluble
<b>Appearance/Odors:</b>	Clear liquid with ammonia
<b>Flash Point:</b>	Not applicable
<b>Percent Volatile by Volume:</b>	>90
<b>Evaporation Rate:</b>	Information Not Available
<b>Evaporation Standard:</b>	
<b>Auto Ignition Temp:</b>	Not Applicable
<b>Lower Flamm. Limit in Air:</b>	Not Applicable
<b>Upper Flamm. Limit in Air:</b>	Not Applicable
<b>Specific Gravity:</b>	Information Not Available

## 10. Stability and reactivity

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Labels:	None
Conditions to Avoid	Avoid contact with incompatible materials.
Materials to Avoid	Strong oxidizers, halogenated hydrocarbons.
Hazardous Decomposition Products	Ammonia
Hazardous Polymerization	Not Applicable
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. 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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