Material Safety Data Sheet

Calcium Titration Solution I (RXSOL-60-6292-100)

1. Product and Company Identifaction

Product Name	RXSOL-60-6292-100
Product Type	Calcium Titration Solution I

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

SARA 313 Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
Hydroxylamine	CAS# 547- 11-1	10%	W/V	TXDS: orl-mouse LD••: 408 mg/Kg
Water, Deionized ASTM Type II	CAS# 7732- 18-5	90%	V/V	None Established

3. Hazards Identification

Causes severe irritation and burns. May be harmful if swallowed. May be harmful if absorbed through the skin. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

Emergency Overview:Danger! Corrosive. Causes burns to any area of contact. Harmful if swallowed or inhaled. Affects the blood. May cause methemoglobinemia.

Inhalation:Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

Ingestion:High concentrations cause coma and death from circulatory collapse. May convert hemoglobin to methemoglobin, producing cyanosis. May also cause nausea, vomiting, fall in blood pressure, headache, virtigo, ringing in the ears, shortness of breath.

Skin:Irritant and possible senitizer.

Eye Contact:Corrosive to the eyes. May cause severe irritation and corneal damage.

Chronic Exposure:This substance is a blood toxin, cauding hemoglobin to convert to methemoglobin, resulting in cyanosis. Lengthy or reapeated exposurd may result in decreased appetite, anemia, weight loss, nervous system affects, and kidney, liver and bone marrow damage.

Aggravated by Exposure:Persons with pre-existing disorders of the blood, skin, liver, kidneys or lungs may be at an increased risk from exposure

4. First Aid Measures

Causes severe irritation and burns. May be harmful if swallowed. May be harmful if absorbed through the skin. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

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 spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person

5. Fire-fighting Measures

Fire Extinguisher Type:	Any means suitable for extinguishing surrounding fire
Fire / Explosion Hazards:	None known
Fire Fighting Procedure:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

6. Accidental Release Measures

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

Ventilate Area of Leak or Spill. Remove all Sources of Ignition. Wear Appropriate Personal Procetive Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personal from entering. Use Water Spray to Dilute Spill to a Nonflabmable Mixture. Contain and Recover Liquid when Possible. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and place in a Chemical Wast Container. Use Non-Sparking Tools and Equipment. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! Us Regulations (CERSLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

7. Handling and Storage

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

8. Exposure controls and personal protection

Respiratory Protection	None required
Ventilation	Local
OTHER	Mechanical

Protective Gloves	Gloves to prevent skin exposure as rubber or vinyl
EYE PROTECTION	Splash Goggles
Other Protective Equipment	Wear appropriate clothing to prevent skin exposure

9. Physical and chemical properties

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	Colorless odorless liquid
Flash Point	Not flammable
Specific Gravity	~1
Percent Volatile by Evaporation Standard	90
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

STABILITY	Stable
CONDITIONS TO AVOID	Avoid contact with incompatible materials.
MATERIALS TO AVOID	Strong oxidizing agents, metals, acids. Copper sulfate, ether, zinc
HAZARDOUS DECOMPOSITION PRODUCTS	Nitric oxide and ammonia fumes

HAZARDOUS POLYMERIZATION	Not expected to occur
Conditions to Avoid	None known

11. Toxicological information

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

12. Ecological information

No Information Flound.

13. Disposal considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. 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

DOT Classification: Not Regulated

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

15. Regulatory information

General Reactivity:Stable Under Ordinary Conditions of Use and Storage.

Hazardous Decomposition:Emits Toxic Fumes of Nitrogen Oxides and Hydrogen Chloride when Heated to Decomposition.

Incompatibilities:Strong Oxidizing Agents, Heat plus Sodium Acetate or Ether, Carbonyl Compounds, Copper Sulfate, Zinc and Phosphorus Chlorides.

Hazardous Polymerization:Will Not Occur.

16. Other information

Inhalation may cause coughing, headache, difficulty in breathing, chest pain, lung irritation and pulmonary edema. May cause irritations or burns to eyes and skin. May be fatal if ingested. Conditions aggravated/target organs: Persons with pre-existing eye, skin and respiratory condition may be more susceptible

Flammability

Health

Reactivity

Revisions	NFPA
7/30/2010	0.1 updated msds to 16 section from 10 section msds. STN
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