Material Safety Data Sheet

Calcium Indicator Solution (RXSOL-60-6197-100)

1. Product and Company Identifaction

Product Name	RXSOL-60-6197-100
Product Type	Calcium Indicator Solution

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Phone	+91 22 65113333 / 5555 / 9999
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2. Composition / informationon ingredients

SARA 313 Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
Ammonium Oxalate	CAS# 6009-70-7	4 - 6%	W/V	OSHA PEL 200 ppm acgih TLV 200 PPM
Water, Deionized ASTM Type II	CAS# 7732-18-5	94-96%	V/V	None Established

3. Hazards Identification

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:Poison! Danger! May be fatal if swallowed or inhaled. May cause burns to respiratory tract and severe irritation to skin and eyes. May affect kidneys.
Inhalation:Inhalation of dust is corrosive to mucous membranes. Oxalates can be absorbed
through the lungs. Symptoms of poisoning include nervousness, cramps, central nervous system depression.

Corrosive action on the mucosa and severe gastrointestitis can occur with pain, vomiting, etc.

Ingestion:Sharp reduction of serum calcium can cause disfunction of the brain.

Skin:Skin contact may produce severe skin irritation with burning, redness.

Eye Contact:May cause severe irritation and pain. May cause burns.

Chronic Exposure:Circulatory failure or nervous system irregularities may follow prolonged
calcium metabolism

disturbances due to oxalation.

4. First Aid Measures

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.

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

If large amounts are swallowed give water to drink and seek medical aid.

5. Fire-fighting Measures

Fire Extinguisher Type:	Any means suitable for extinguishing surrounding fire
Fire / Explosion Hazards:	oxidizer. Contact with combustible materials may cause a fire.
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. 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. Collect liquid in a appropriate container and absorb with dry sand, vermiculite, earth or other inert substance and package in a suitable container for disposal. Do not flush to sewer!

7. Handling and Storage

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Protect from physical damage and freezing. Do not reuse

8. Exposure controls and personal protection

Respiratory Protection	None required
Ventilation	Local
OTHER	Mechanical
Protective Gloves	Wear appropriate gloves to prevent skin exposure
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	Clear, colorless, available odorless liquid
Flash Point	Not flammable
Specific Gravity	Information not available
Percent Volatile by Evaporation Standard	>94%
Auto Ignition Temp	Information not available
Lower Flamm. Limit in Air	Information not available
Upper Flamm. Limit in Air	Information not available
Solubility in Water	Soluble

10. Stability and reactivity

STABILITY	Stable
CONDITIONS TO AVOID	Avoid contact with incompatible materials.
MATERIALS TO AVOID	Oxidable materials, metals, acids, sodium hypochlorite.
HAZARDOUS DECOMPOSITION PRODUCTS	Burning may produce ammonia and nitrogen oxides
HAZARDOUS POLYMERIZATION	Will Not Occur
Conditions to Avoid	None known

11. Toxicological information

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

12. Ecological information

Environmental Fate:No information found

Environmental Toxicity:No information found

13. Disposal considerations

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

DOT Classification: Not Regulated

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

15. Regulatory information

Chemical Inventory Status –
Part 1:Ingrdient
Ammonium Oxalate (1113-38-8)
TSCA Yes
EC Yes
Japan YES
Australia Yes

Chemical Inventory Status –
Part 2:Ingredient
Ammonium Oxalate (1113-38-8)
Korea Yes
DSL Yes
NDSL No
Phil. Yes

Federal, State & International Regulations –
Part 1: Ingredient.
Ammonium Oxalate (1113-38-8)
RQ No
TPQ No
List NO
Chemical Catg No

Federal, State &
International Regulations –
Part 2:Ingredient
Ammonium Oxalate (1113-38-8)
CERCLA 5000
261.33 No
8(d) No

Chemical Weapons Convention: No
TSCA 12 (b):No
CDTA:No MIXTURE/SOLID
SARA 311/312: Acute:YES
Chronic: YES
Fire: No
Pressure: No
Reactivity: No
Australian Hazchem Code: NONE ALLOCATED
Poison Schedule:NONE ALLOCATED

16. Other information

Target Effects: Neurotoxin, nephrotoxin. Poison! Danger! May be fatal if swallowed or inhaled! May cause burns to respiratory tract and severe irritation to skin and eyes. May affect kidneys. Skin contact may cause severe irritation and pain. May cause skin burns.

Flammability

Health Reactivity

NFPA

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