Material Safety Data Sheet

Sulfate Indicator Solution (RXSOL-60-6198-500)

1. Product and Company Identifaction

Product Name	RXSOL-60-6198-500
Product Type	Sulfate Indicator Solution

Company Details:

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

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Email	mail@rxmarine.com

2. Composition / informationon ingredients

SARA 313 Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
Barium Chloride	CAS# 10326- 27-9	9 -10	W/V	OSHA PEL 0.89 mg/m*f*
Hydrochloric Acid	CAS# 7647-01-0	1 - 6%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/m*f*
Water, Deionized ASTM Type II	CAS# 7732-18-5	85-96%	V/V	None Established

3. Hazards Identification

May cause irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview:Ingestion may Cause Gastronintestinal Disturbances. May Cause Eye Irritation, Redness and Pain.

Inhalation:Not Expected to Be a Health Hazard.

Ingestion:Large Oral Doses may Cause Gastrointestinal Disturbances.

Skin:No Adverse Effects Expected.

Eye Contact:May Cause Irritation, Redness and Pain.

Chronic Exposure:No Information Found.

Aggravated by Exposure:No Information Found.

4. First Aid Measures

May cause irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

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
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. Neutralize with a weak base.

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Contain and Recover Liquid when Possible

7. Handling and Storage

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Keep out of direct sunlight, away from heat, water and incompatible materials. Containers may be

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 liquid/no

Flash Point	Information not available
Specific Gravity	hazardous when empty. odor ~ 1
Percent Volatile by Evaporation Standard	>99%
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 Light
MATERIALS TO AVOID	Halides, ammonia, phosphates, bases
HAZARDOUS DECOMPOSITION PRODUCTS	HCL Fumes, Chlorine
HAZARDOUS POLYMERIZATION	Will Not Occur
Conditions to Avoid	None known

11. Toxicological information

Carcinogenic References: Hydrogen Chloride - IARC Category 3, NTP Carcinogen - Known: No

12. Ecological information

Environmental Fate: When Released into the Soil, this Material is Not Expected to Biodegrade.
When Released into the Soil, this Material may Leach into Groundwater.

13. Disposal considerations

Dilute with Water and Flush to Sewer if Local Ordinances Allow, Otherwise, 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: UN1789, Hydrochloric Acid Solution, 8, PG III

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
Barium Chloride (10361-37-2)
Hydrogen Chloride (7647-01-0)

TSCA	Yes	YES
EC	Yes	YES
Japan	YES	YES
Australia	Yes	YES

Chemical Inventory Status –
Part 2:Ingredient
Barium Chloride (10361-37-2)
Hydrogen Chloride (7647-01-0)

Korea	Yes	YES
DSL	Yes	YES
NDSL	No	NO
Phil.	Yes	YES

Federal, State & International Regulations –
Part 1: Ingredient.
Barium Chloride (10361-37-2)
Hydrogen Chloride (7647-01-0)

RQ	No	5000
TPQ	No	500
List	NO	YES
Chemical Catg:	BARIUM COMP	No

Federal, State &
International Regulations –
Part 2:Ingredient
Barium Chloride (10361-37-2)
Hydrogen Chloride (7647-01-0)

CERCLA	NO	5000
261.33	No	NO
8(d)	No	NO

Chemical Weapons Convention: No
TSCA 12 (b):No

16. Other information

Overexposure symtoms: Corrosive effects.: Acute-Irritation possible to skin, eyes, lungs, mucous membranes, and GI tract. Chronic- none known. Conditions aggravated/Target organs: Persons with preexisting skin, eye, or respiratory disorders may be more susceptible. May be Toxic by ingestion. Ingestion may cause severe abdominal pain, violent purging with bloody stool, confusion, paralysis, For eye contact, flush with plenty of water for

Flammability

Health

Reactivity

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