Material Safety Data Sheet

Buffer Solution, pH 10 (RXSOL-60-6208-050)

1. Product and Company Identifaction

Product Name	RXSOL-60-6208-050
Product Type	Buffer Solution, pH 10

Company Details:

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

Phone	+91 22 65113333 / 5555 / 9999
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Component	CAS Registry #	Percent Concentration	Exposure Limits	
			ACGIH TLV	OSHA PEL
Sodium Carbonate	497-19-8	< 1	N/A	N/A
Sodium Bicarbonate	144-55-8	< 1	N/A	N/A
Preservative* *(No Mercury compounds or Formaldehyde)	proprietary	< 0.1	N/A	N/A
Inert Dye	proprietary	< 0.1	N/A	N/A
Water, Deionized	7732-18-5	Balance	N/A	N/A

3. Hazards Identification

EMERGENCY OVERVIEW

Non-flammable, non-toxic, non-corrosive. Does not present any significant health hazards. Wash areas of contact with water.

POTENTIAL HEALTH EFFECTS:

TARGET ORGANS: eyes, skin.

EYE CONTACT: May cause slight irritation.

INHALATION: Not likely to be hazardous by inhalation.

SKIN CONTACT: May cause slight irritation.

INGESTION: Large doses may cause nausea, vomiting, diarrhea and cramps.

CHRONIC EFFECTS / CARCINOGENICITY:

IARC – No
NTP – No
OSHA – No

TERATOLOGY (BIRTH DEFECT) INFORMATION:
Mutation data cited in “Registry of Toxic Effects of Chemical Substances” for Sodium Bicarbonate in rats.

REPRODUCTION INFORMATION:
Reproductive data cited in “Registry of Toxic Effects of Chemical Substances” for Sodium Bicarbonate and Sodium Carbonate in mice.

4. First Aid Measures

EYE CONTACT:	Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.
INHALATION:	Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.
SKIN CONTACT:	Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.
INGESTION:	Dilute with water or milk. Call a physician if necessary.

5. Fire-fighting Measures

FLAMMABLE PROPERTIES:

FLASH POINT: N/A METHOD USED: N/A

FLAMMABLE LIMITS

LFL: N/A UFL: N/A

EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.

FIRE & EXPLOSION HAZARDS: Not considered to be a fire or explosion hazard.

FIRE FIGHTING INSTRUCTIONS: Use normal procedures/instructions.

FIRE FIGHTING EQUIPMENT: Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. Accidental Release Measures

Absorb with suitable material and treat as normal refuse. Small amounts of the liquid may be flushed to the drain with excess water. Always dispose of in accordance with local regulations.

7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin.Protect from freezing and physical damage. SAFETY STORAGE CODE: GENERAL

8. Exposure controls and personal protection

ENGINEERING CONTROLS	No specific controls are needed. Normal room ventilation is adequate.
RESPIRATORY PROTECTION	Normal room ventilation is adequate.
SKIN PROTECTION	Chemical resistant gloves.
EYE PROTECTION	Safety glasses or goggles.

9. Physical and chemical properties

APPEARANCE	Clear, blue colored liquid
pH	10
ODOR	Odorless

BOILING POINT (OC)	approximately 100
MELTING POINT (OC)	approximately 0
SOLUBILITY IN WATER	Infinite
SPECIFIC GRAVITY	approximately 1
VAPOR PRESSURE	N/A

10. Stability and reactivity

CHEMICAL STABILITY	Stable under normal conditions of use and storage.
INCOMPATIBILITY	Acids
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of Sodium
HAZARDOUS POLYMERIZATION	Will not occur

11. Toxicological information

LD50, Oral, Rat: 4090 mg/kg (Sodium Carbonate), 4220 mg/kg (Sodium Bicarbonate), details of toxic effects not reported other than lethal dose value.

12. Ecological information

ECOTOXICOLOGICAL INFORMATION: No information found.

CHEMICAL FATE INFORMATION: No information found.

13. Disposal considerations

Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

14. Transport information

D.O.T. SHIPPING NAME: Not regulated

D.O.T. HAZARD CLASS: None

U.N. / N.A. NUMBER: None

PACKING GROUP: None

D.O.T. LABEL: None

15. Regulatory information

OSHA STATUS: The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA STATUS: All components of this solution are listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITY: Not reportable

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: No

SECTION 311/312 HAZARDOUS CATEGORIES: No

SECTION 313 TOXIC CHEMICALS: No

RCRA STATUS: No

CALIFORNIA PROPOSITION 65: Not listed.

16. Other information

NFPA® Ratings:	Health: 1	Flammability: 0	Reactivity: 0	Special Notice Key: None
HMIS® Ratings:	Health: 1	Flammability: 0	Reactivity: 0	Protective Equipment: B (Protective eyewear, gloves)

Rev 1, 01-15-2003: added catalog number 35653-03.
Rev 2, 03-25-2003: Reviewed and approved.
Rev 3, 03-20-2006: Reviewed and approved.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.