Material Safety Data Sheet

Boric Acid 2% Solution (RXSOL-60-6217-500)

1. Product and Company Identifaction

Product Name	Boric Acid 2% Solution
Product Type	RXSOL-60-6217-500

Company Details:

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

Stock Point ::: Kandla, Mumbai, Kolkata - Haldia, Visakhapatnam, Chennai - Ennore, Fujairah

Phone	+91 22 27815540 / 41 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

SARA 313 Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
Boric Acid	CAS# 10043-35-3	2%	W/N	OSHA PEL 15mg/mf (totaldust)
Water, Deionized ASTM Type II	CAS# 7732-18-5	98%	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:Warning! Harmful if swallowed of inhaled. Causes irritation to skin, eyes and respiratory tract. Affects central nervous system, liver and kidneys.

Inhalation:Effects should be less severe than from exposure to higher concentrations of Boric Acid.
Symptoms may include irritation of the nose and throat, and labored breathing as well as lung edema, damage to the mucous membranes and upper respiratory tract.

Ingestion:Should be less severe than from exposure to higher concentrations of Boric Acid Symptoms
may include severe burns of the mouth, throat, and stomach. Circulatory collapse with clammy skin, weak and rapid pulse, shallow respirations, and scanty urine may follow ingestion or skin contact. Circulatory shock is often the immediate cause of death. May cause sore throat, vomiting, and diarrhea.

Skin:Causes skin irritation. Not significantly absorbed through intact skin. Readily absorbed through
damaged or burned skin. Symptoms of skin absorption parallel inhalation and ingestion. Eye Contact:Symptoms may include blurred vision, redness, pain and burns to eye tissue. Concentrated
solutions can cause blindness.

Chronic Exposure:May result in Anorexia, Weight Loss, Vomiting, Mild Diarrhea, Skin Rash,Convulsions, Anemia,and Alopecia. Conjunctivitis and Edema may occur

Aggravated by Exposure:Persons with Pre-Existing skin Disorders or Eye Disease may be more Susceptible to the Effects to this Substance.

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:	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:	If swallowed, induce vomiting immediately after giving two glasses of water. 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:	temperatures, which can be explosive under some conditions. Keep personnel
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.

Accidental Release: Ventilate area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering.
Contain and Recover Liquid when Possible. Absorb with an Inert Material (e.g., Vermiculite, Dry
Sand, Earth), and place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! US Regulations (CERCLA) 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. Keep out of direct sunlight and away from heat, water and incompatibloe materials. Do not reuse containers.

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	28°C
VAPOR PRESSURE	not available
MELTING POINT	~0° C
VAPOR DENSITY	not available
EVAPORATION RATE	information not available

Appearance /Odors	Clear colorless liquid. Strong ammonia
Flash Point	not flammable
Specific Gravity	1.0
Percent Volatile by Evaporation Standard	98%
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	oxidizing agents, amines, metals, bases
MATERIALS TO AVOID	Oxidizing agents, metals, bases, amines.
HAZARDOUS DECOMPOSITION PRODUCTS	Not known to occur
HAZARDOUS POLYMERIZATION	not expected to occur
Conditions to Avoid	None known

11. Toxicological information

Toxicological Data:Oral rat LD50: 2660 mg/kg; oral woman LDLo: 200 mg/kg; investigated as a mutagen, tumorigen, reproductive effector.

Reproductive Toxicity:May impair fertility. May cause harm to the unborn child. Carcinogenic References:NTP Carcinogen - Known: No, IARC Category- None

12. Ecological information

Environmental Fate:Boric acid: 48 Hr EC50 water flea: 115.0 mg/L [Static]

Environmental Toxicity:The EC50/48-hour values for daphnia are over 100 mg/l. This material may be toxic to aquatic life

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

Chemical Inventory Status –
Part 1:Ingrdient
Boric Acid (10043-35-3)
TSCA Yes
EC Yes
Japan YES
Australia Yes

Chemical Inventory Status –
Part 2:Ingredient
Boric Acid (10043-35-3))
Korea Yes
DSL Yes
NDSL No
Phil. Yes

Federal, State & International Regulations –
Part 1: Ingredient.
Boric Acid (10043-35-3)
RQ No
TPQ No
List NO
Chemical Catg No

Federal, State &
International Regulations –
Part 2:Ingredient
Boric Acid (10043-35-3)
CERCLA No
261.33 No
8(d) No

Chemical Weapons Convention: No
TSCA 12 (b):No
CDTA:No PURE/SOLID
SARA 311/312: Acute: Yes
Chronic: Yes
Fire: No
Pressure: No
Reactivity: No
Australian Hazchem Code: None allocated
Poison Schedule:S5

16. Other information

Warning, harmful if swallowed or inhaled. eyes & skin: flush affected area with large amounts of water.inhal: remove to fresh air.ingest: give two large glasses of water. In all cases seek medical attention. Conditions aggravated/target organs . Persons with pre-existing eye, skin or respiratory condition may be more susceptible.Ingestion may cause circulatory system colllapse with clammy skin,weak and rapid pulse, shallow respirations and scanty urine may follow ingestion or skin contact.may cause sore throat,

Flammability

Health Reactivity

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