Material Safety Data Sheet

BORAX (RXSOL-12-1529-025)

1. Product and Company Identifaction

Product Name	BORAX
Part Number	RXSOL-19-1529-025
Chemical Formula	B4Na2O7 · 10H2O

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

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Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EC NO	Weight
BoraxDecahydrate Sodium BorateDecahydrate	1303-96-4	215-540-4	381,86 g/mol

3. Hazards Identification

Signal word	Danger
Hazard statement(s)	H360FD May damage fertility. May damage the unborn child.
Precautionary statement(s)	P201 Obtain special instructions before use. P308 + P313 IF exposed or concerned: Get medical advice/ attention. Supplemental Hazard none Statements Restricted to professional users.
Other hazards	None

4. First Aid Measures

General advice	Consult a Physician. Show this safety data sheet to the doctor in attendance.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
Eye Contact	Flush eyes with water as a precaution.
Swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms/effects, acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed. Notes to Physician	No data available

5. Fire-fighting Measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special hazards arising from the substance or mixture	Borane/boron oxides, Sodium oxides.
Advice for firefighters	Wear self contained breathing apparatus for fire fighting if necessary.
Further information	The product itself does not burn.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures.	Use personal protective equipment. Avoid dust formation.Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Environmental Precautions	Prevent further leakage or spillage if safe to do so.Do not let product enter drains.
Methods and material for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Precautions for safe handling	Avoid formation of dust and aerosols.Avoid exposure -obtain special instructions before use.Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

Appropriate Engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment	Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and chemical properties

Appearance	Crystalline
Colour	White
Odour	No information available
Odor Threshold	No information available
pH	9,2 at 10 g/l
Melting Point/Freezing Point	62 °C point.
Initial Boiling Point and Boiling Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Solid Flammability (solid,gas)	No information available
Explosion Limits	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Relative density	1,73 g/mL at 25 °C
Water Solubility	38,1 g/l at 20 °C - completely soluble
Partition coefficient:n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Other safety information	No information available

10. Stability and reactivity

Reactivity	No data available

Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reaction	No data available
Conditions to Avoid	No data available
Incompatible Materials	Strong oxidizing agents, Strong reducing agents.
Hazardous Decomposition Products	Other decomposition products - no data available In the event of fire: see section 5

11. Toxicological information

Acute toxicity	LD50 Oral - rat - 4.500 - 5.000 mg/kg LD50 Dermal - rabbit - 10.000 mg/kg
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	Fetotoxicity Presumed human reproductive toxicant Presumed human reproductive toxicant
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: VZ2275000 Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. Studies with the chemically related boric acid in the rat, mouse and rabbit, at high doses, demonstrate developmental effects on the fetus, including fetal weight loss and minor skeletal variations. The doses administered were many times in excess of those to which humans would normally be exposed. Human epidemiological studies show no increase in pulmonary disease in occupational populations with cronic exposures to boric acid dust and sodium borate dust. A recent epidemiological study under the conditions of normal occupational eposure to borate dusts indicated no effect on fertility.

12. Ecological information

Toxicity	Toxicity to fish Toxicity to daphnia and Other aquatic invertebrates. Toxicity to algae LC50 - Carassius auratus (goldfish) - 178 mg/l - 72 h EC50 - Daphnia magna (Water flea) - 1.085 - 1.402 mg/l - 48 h IC50 - Desmodesmus subspicatus (green algae) - 158 mg/l - 96 h
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	No data available

13. Disposal considerations

Waste from Residues / Unused Products	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging	Dispose of as unused product.

14. Transport information

DOT	Not regulated
TDG	Not regulated
Hazard Class	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

Safety, health and environmental regulations/ legislation specific for the substance or mixture	Authorisations and/or restrictions on use Disodium tetraborate decahydrate CAS-No.: 1303-96-4 Candidate List of Substances of Very High Concern for Authorisation Toxic for reproduction Authorisation Toxic for reproduction (article 57c) ED/30/2010 Disodium tetraborate decahydrate CAS-No.: 1303-96-4 Candidate List of Substances of Very High Concern for Authorisation Toxic for reproduction (article 57c) ED/30/2010.
Chemical safety assessment	For this product a chemical safety assessment was not carried out.

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if **Rx Marine International** has been advised of the possibility of such damages.