

1. Product and Company Identification

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Product Name Borax Sodium Borate
Part Number RXSOL-19-1529-050
Chemical Formula $B_4Na_2O_7 \cdot 10H_2O$

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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

3. Hazards Identification

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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. Supplemental Hazard none Statements Restricted to professional users.
Other hazards	None

4. First Aid Measures

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

5. Fire-fighting Measures

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

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures.	Use personal protective equipment. Avoid dust. Ensure adequate ventilation. Adequate ventilation is required to prevent breathing dust. For personal protection see section 8. Prevent further leakage or spillage if safe to do so. Do not allow to get into drains.
Environmental Precautions	Pick up and arrange disposal without creating dust. Do not empty into drains.
Methods and material for containment and cleaning up	closed containers for disposal.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

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Precautions for safe handling	Avoid formation of dust and aerosols. Avoid exposure. Use appropriate exhaust ventilation at places where dust is formed.
Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in original container.
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other uses are recommended.

8. Exposure controls and personal protection

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Appropriate engineering controls	Handle in accordance with good industrial hygiene practices. Wash thoroughly at the end of workday.
Personal protective equipment	Eye/face protection Safety glasses with side-shields conforming to EN 166. Safety glasses approved under appropriate government standards and approved for the use with substances of this hazard class.
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Do not use if the outer surface is damaged. Avoid contact with the inner surface of the gloves. Remove and replace gloves if they become wet or contaminated. After glove use, perform hand hygiene. Wash hands after removing gloves. Remove and replace gloves if they become wet or contaminated. After glove use, perform hand hygiene. Wash hands after removing gloves.
Body Protection	Complete suit protecting against chemicals, The type of protection 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: type N100 (US) or type P3 (EN 143) respirator conforming to EN 12959. If a respirator is the sole means of protection, use a respirator with a full facepiece and components tested and approved under appropriate government standards: NIOSH (US) or CEN (EU).
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not allow to get into drains.

9. Physical and chemical properties

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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

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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

11. Toxicological information

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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 probable, possible or confirmed human carcinogen
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 h testes. Studies with the chemically related boric demonstrate developmental effects on the fetus, inc The doses administered were many times in excess Human epidemiological studies show no increase in chronic exposures to boric acid dust and sodium bo conditions of normal occupational exposure to borate

12. Ecological information

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Toxicity	Toxicity to fish Toxicity to daphnia and
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Persistence and degradability	Other aquatic invertebrates. Toxicity to algae LC50 - Carassius auratus (goldfish) - 178 mg/l - 72
Bioaccumulative potential	EC50 - Daphnia magna (Water flea) - 1.085 - 1.40
Mobility in soil	IC50 - Desmodesmus subspicatus (green algae) - 15
Results of PBT and vPvB assessment	No data available
Other adverse effects	No data available
	No data available
	No data available
	PBT/vPvB assessment not available as chemical saf
	No data available

13. Disposal considerations

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

14. Transport information

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

15. Regulatory information

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Safety, health and environmental regulations/ legislation specific for the substance or mixture	Authorisations and/or restrictions on use 1303-96-4 Candidate List of Substances c for reproduction Authorisation Toxic for reprod decahydrate CAS-No.: 1303-96-4 Candidate List Toxic for reproduction (article 57c) ED/30/2010.
Chemical safety assessment	For this product a chemical safety assessment was

16. Other information

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Other Information

The information above is believed to be accurate and reliable. However, we make no warranty, expressed or implied, with respect to such information, and we make their own investigations to determine its accuracy for their own purposes. In no event shall we be liable for any claims or damages, or any special, indirect, incidental, consequential or punitive damages, arising from the use of this information. **Marine International** has been advised of the po

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product. If the product is used as a component in a system, the applicable standards may be applicable.