Material Safety Data Sheet

BORIC ACID GRANULAR (RXSOL-60-6604-085)

1. Product and Company Identifaction

Product Name	: BORIC ACID POWDER
Part Number	: RXSOL-60-6604-086

Company Details:
RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Name of Substance	Cas Number	EINECS No	Wt.%	Symbol
Boric Acid	10043-35-3	233-139-2	--	--

3. Hazards Identification

Signal Word	Danger
Hazard Statements	May damage fertility. May damage the unborn child.
Precautionary statements	P201 Obtain special instructions before use. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P308 + P313 IF exposed or concerned: Get medical advice/ attention.
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

4. First Aid Measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance
Eye Contact	Flush eyes with water as a precaution
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician..
Notes to Physicians	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire-fighting Measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media which must not be used for safety reasons:	No data available
Special exposure hazards arising from the substance itself, combustion products, resulting gases:	Borane/boron oxides

Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus for firefighting if necessary.
Additional information:	No data available

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. Evacuate personnel to safe areas. Avoid breathing dust.
Enviromental Precaution	Prevent further leakage or spillage if safe to do so. Do not let product enter drains
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

7. Handling and Storage

Advice on 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.
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non-combustible, toxic hazardous materials or hazardous materials causing chronic effects.
Advice on general occupational hygiene	No data available.

8. Exposure controls and personal protection

Engineering Control	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal Protection	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 Impervious clothing, 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 (EN 143) respirator cartridges as a backup to engineering controls. If th 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.



Gloves



Suit

9. Physical and chemical properties

Form	solid
Odour	No data available
Boiling point and boiling range	300 °C
Flash Point	No data available
Freezing Point	Melting point/range: 160 °C - dec
pH	5.1 at 1.8 g/l at 25 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available

Upper explosion limit	No data available
Lower explosion limit	No data available
Explosive properties	No data available
Vapor pressure	2.6 mmHg at 20 °C
Relative vapor density	No data available
Relative density	1.440 g/cm3
Water solubility	Soluble
Partition coefficient: octanol	No data available
Autoignition temperature	No data available
Thermal decomposition	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10. Stability and reactivity

Recativity	None
Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Incompatible materials	Potassium, Acid anhydrides
Hazardous Decomposition	Hazardous decomposition products formed under fire conditions. - Borane/boron oxides
Condition to Avoid	Exposure to moisture

11. Toxicological information

Route of Exposure	Inhalation, Eye contact, Skin contact
Eyes	Serious eye damage/eye irritation.
Skin	Skin corrosion/irritation.
Ingestion	Causes digestive tract burns
Chronic Exposure	No data available
Acute oral toxicity	LD50 Oral - Rat - 2,660 mg/kg(Boric acid)
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Additional information	Toxicity reported for borates in humans: ingestion or absorption may cause anderythematous lesions on the skin and mucous membranes. Other symptoms delirium, convulsions, and coma. Death has been reported to occur in infa grams.(Boric acid).

12. Ecological information

Environmental Effects	No data available
Toxicity to fish	LC50 - Ptychocheilus lucius - 279 mg/l - 96 h(Boric acid) LC0 - Lepomis macrochirus (Bluegill) - > 1,021 mg/l - 96 h(Boric
Toxicity to daphnia and others	LC50 - Daphnia magna (Water flea) - 53.2 mg/l - 21 d(Boric acid) EC50 - Daphnia magna (Water flea) - 133 mg/l - 48 h(Boric acid)
Toxicity to algae	No data available
Biodegradability	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available

Additional information	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

13. Disposal considerations

Remarks	Dispose of as unused product
Waste Disposal	Dissolve or mix the material with a combustible solvent and burn in a chem scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

14. Transport information

Hazard Pictograms:

UN Number	--
Proper shipping name	--
Transport hazard class(es) 8	
ADR/RID	--
Subsidiary risk IMDG	--
Subsidiary risk IATA	--
Packing group	
Packing group	--
Environmental hazards	
Environmental hazards	No
Marine pollutant	No
ADR/RID	
Hazard ID	--
Tunnel Category	--
IMDG	
EmS Code	--
IATA	
Packing Instruction (Cargo)	--
Maximum quantity	--
Packing Instruction (Passenger)	--
Maximum quantity	--

15. Regulatory information

Regulations	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006..
Chemical safety assessment	For this product a chemical safety assessment was not carried out.
Further information	No data available.

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.