## 1. Product and Company Identifaction

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Product Name : BRINE CORROSION INHIBITOR

Part Number : RXSOL-81-4049-210

Company Details:

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

Branch: Kandla, Mumbai, Chennai, Vizag, Kolkata, Fujairah UAE, Muscat, Nairobi and CANADA

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# 2. Composition / Information on ingredients

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Name of Sub	stance Cas Number	EINECS No	Wt.%	Symbol
Sodium Borate Anh	ydrous 1330-43-4	215-540-4	5 -10%	Xi
Sodium Hydroxide	310-73-2	215-185-5	1- 2%	C
Proprietory Blend of Inhibitor	f		21-30%	

#### 3. Hazards Identification

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Signal Word Warning

Hazard Statements H315 Causes skin irritation.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

Precautionary statements - prevention P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions. P201 Obtain special instructions before use.

P280 Wear protective gloves, protective clothing, eye protection and face

protection.

P264 Wash all exposed external body areas thoroughly after handling.

P308+P313 IF exposed or concerned: Get medical advice/attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

#### 4. First Aid Measures

Precautionary statements - response

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Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Get medical attention immediately.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Use a

mild soap if available. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention immediately.

Inhalation: If inhaled, If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Call a physician.

If swallowed, do not induce vomiting. Allow victim to rinse his mouth and

then to drink 2-4 cupfuls of water. Never give anything by mouth to an

unconscious person. Call a physician.

Notes to Physicians Treat symptomatically.

## 5. Fire-fighting Measures

Ingestion:

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Flammability Non Flammable

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances

and the surrounding environment.

Protective Equipment Use personal protective equipment.

Advice for firefighters Wear self-contained breathing apparatus. Wear full protective equipment.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or

explosion do not breathe fumes.

#### 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. Wear suitable personal protective equipment.Respiratory protective

equipment.

Environmental Precaution Do not allow contact with soil, surface or ground water. If the products get

into drains, inform the relevant authorities immediately.

Methods and materials for containment and cleaning up

Specific extinguishing methods

Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure

runoff does not reach a waterway.

# 7. Handling and Storage

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Advice on safe handling

Storage

Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation.

Wash hands thoroughly after handling.

Do not store near acids. Keep out of reach of children. Store in suitable labeled containers. Storage temperature : 10  $^{\circ}C$  to 50  $^{\circ}C$ 

Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.

**Emergency Limits** Ingredient

Hygiene measures

8. Exposure controls and person	nal protection www.rxmarine.com
Engineering Control	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.
Personal Protection	Eye & face protection: Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure. Chemical goggles.whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted. Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection. Alternatively a gas mask may replace splash goggles and face shields. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.  Hand protection: Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Skin protection: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Occupational Exposure Limits (OEL)	Ingradients CAS No. Form of Value IIV EH40

Ingredients	CAS No	Form of exposure	Value	UK EH40 OES (table 2
Sodium Borate Anhydrous	1330-43-4	TWA	1 mg/m3	1 ppm
		STEL	Not Avaialble	NA
Sodium Hydroxide	310-73-2	TWA	Not Avaialble	NA
		STEL	Not Avaialble	NA
Ingredients	CAS No	TEEL1	TEEL2	TEEL3
Sodium Borate Anhydrous	1330-43-4	6 mg/m3	88 mg/m3	530 mg/m3

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Not Avaialble NA

TWA

310-73-2

Sodium Hydroxide



Gloves Suit

#### 9. Physical and chemical properties

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Form Liquid
Colour Yellow
Odour Not Availa

Odour Not Available
Odour threshold Not Available
Boiling point and boiling range 100°C

Boiling point and boiling range 100°C

Flash Point Non FlammableNo Freezing Point Not Available 11.5 -14 Not available Evaporation rate Flammability (solid, gas) Not Available Upper explosion limit Not Available Lower explosion limit Not Available Explosive properties Not Available Not Available Vapor pressure Relative vapor density Not Available

Relative density 1.155 - 1.190 (25?C)

Water solubility Miscible Solubility in other solvents Not Available Partition coefficient: octanol Not Available Autoignition temperature Not Available Not Available Thermal decomposition Viscosity, kinematic Not Available Explosive properties Not Available Not Available Oxidizing properties Molecular weight Not Available VOC Not Available

#### 10. Stability and reactivity

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Recativity None

Stability Stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Incompatible materials Avoid to contact with strong acids

Avoid to contact with oxidizing agents.

Store away from aldehydes.

Hazardous Decomposition Decomposition products may include the following materials:

Sulphurous oxides (SOx)

Condition to Avoid None Known
Polymerization Will not occur.

Route of Exposure Inhalation, Eye contact, Skin contact

EyesCauses serious eye damage.SkinCauses severe skin burns.IngestionCauses digestive tract burns

Inhalation Inhalation of vapours leads to irritation of respiratory tract and mucous

membranes, headache, nausea, dizziness, vomiting. Sensitisation possible

through inhalation

Chronic Exposure Health injuries are not known or expected under normal use.

Acute oral toxicity Oral (man) LDLo: 709 mg/kg[2]

Acute inhalation toxicity

No data available
Acute dermal toxicity

No data available

Classification The classification was made by the conventional (calculation) method of

Dangerous Preparations Directive(1999/45/EC)

## 12. Ecological information

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Environmental Effects No data available

Toxicity to fish Endpoint Test Duration (hr) Species

Value Source

EC50 96h Algae or other aquatic plants

2.6-21.8mg/l 4

Toxicity to daphnia and others Endpoint Test Duration (hr) Species

Value Source

EC50 48h Crustacea

34.59-47.13mg/l 4

EC50(ECx) 48h Crustacea

34.59-47.13mg/l 4

LC50 96h Fish

144-267mg/l 4

Toxicity to algae No data available
Biodegradability Low (28 d)
Persistence and degradability No data available
Bioaccumulative potential No data available
Mobility in soil No data available

# 13. Disposal considerations

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Remarks Please consider the relevant national or regional provisions. Waste shall

be separated into the categories that can be handled separately by the local

or national waste management facilities.

Waste Disposal

The product should not be allowed to enter drains, water courses or the

soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility

# 14. Transport information

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Not classified as hazardous forany mode of Transport

	DOT	TDG Classification	IMDG	IATA
UN Number	Not Regulated For transort			
Proper shipping name	Not Regulated For transort			
Transport hazard class(es)	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Packing Group	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Environmental hazards	NO	NO	NO	NO

## 15. Regulatory information

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US Federal Regulations

WHMIS Classification

Further information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

FOR INDUSTRIAL USE. Water Hazard Class:. WGK 1.

## 16. Other information

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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.

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