Material Safety Data Sheet

Scale Inhibitor 170 (RXSOL-81-8193-210)

1. Product and Company Identifaction

Product Name	Scale Inhibitor 170
Part Number	RXSOL-81-8193-210

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Component	CAS-No	Weight %	R Phrases
BHMTP (Methylene phosphonic Acid)	34690-00 -1	10- 30	R 34
Ammonium Chloride	235-186-4	1-10	R 22

3. Hazards Identification



Corrsive

Classification	:	Skin corrosion/irritation
Label Elements	:	Corrosive : Causes severe skin burns and eye damage.
Precautionary Statements	:	Avoid release to the environment.Wear protective gloves/ protective clothing/ eye protection/ face protection.

4. First Aid Measures

Inhalation	:	Remove to fresh air, treat symptomatically. Get medical attention.
Skin Contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention. Take off contaminated clothing and shoes immediately.
Eye Contact	:	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Ingestion	:	Seek medical advice immediately, showing the label and/or MSDS. If conscious, washout mouth and give water to drink. If unconsious, do not give anything by mouth, place in the recovery position, check breathing and pulse. If necessary give artifical respiration. Do not induce vomiting without medical advice.
Important symptoms	:	Causes severe skin burns and eye damage.

5. Fire-fighting Measures

Suitable Extinguishing Media	:	Use fire-extinguishing media appropriate for surrounding materials. Water spray. Foam. Carbon dioxide (CO2). Dry chemicals, sand,dolomite etc.
Special Fire Fighting Procedure	:	Avoid breathing fire vapours. Keep up-wind to avoid fumes. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.
Special Hazaqrd during fire	:	May develop highly toxic or corrosive fumes if heated. Fire or high temperatures create: Oxides of: Carbon. Nitrogen. Phosphorus.
Method	:	Wear full protective clothing. Use air-supplied respirator during fire fighting.

6. Accidental Release Measures

Personal Precautions	:	Wear protective clothing as described in Section 8 of this safety data sheet. In case of inadequate ventilation, use respiratory protection. Avoid inhalation of vapours and contact with skin and eyes.
Environmental Precautions	:	In the event of a spill, prevent material from entering sewers or waterways. Do not allow material to contaminate ground water system. Prevent product from entering drains. If drains, streams, soil or sewers become contaminated, notify local authority. Do not contaminate surface water.
Methods for Containment and Clean Up	:	**Small Spill :** Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. **Large Spill :** Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Do not let washing down water contaminate ponds or waterways.

7. Handling and Storage

Handling : Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Ensure all containers are labeled. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection)

Storage : Store in suitable labeled containers. Store the containers tightly closed. Containers require venting bungs to avoid over pressure. Keep in dry place. Store in a cool well ventilated area away from direct sunlight.

8. Exposure controls and personal protection

Exposure Guidelines : Exposure guidelines have not been established for this product.

Engineering Measures	:	General ventilation is recommended. The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.Use approved safety goggles or face shield.
Skin and body protection	:	When handling this product, the use of chemical gauntlets is recommended. The choice of work glove depends on work conditions and what chemicals are handled.

Hygiene Measures	:	DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory Protection : Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.



Gloves



Suit

9. Physical and chemical properties

Physical State	:	Liquid
Appearance	:	Clear Dark Brown
Odor	:	Amine
Odor Threshold	:	No information available.
PH	:	3.4 - 5.4
Melting Point/Range	:	No information available.
Boiling Point/Range	:	100 °C
Flash Point	:	No information available.
Evaporation Rate	:	No information available.
Flammability (solid,gas)	:	No information available.
Flammability or explosive limits Upper	:	No data available
Flammability or explosive limits Lower	:	No data available
Lower Explosion Limit	:	No data available.
Vapor Pressure	:	No data available.
Vapor Density		No data available.
Relative Density	:	1.01 - 1.21 @ 20 °C
Solubility in Water	:	Complete Soluble.
Partition coefficient; n-octanol/water	:	No data available
Decomposition temperature	:	No information available.
Viscosity	:	1-20 cst @ 20 °C
Explosive Properties	:	Not applicable
Oxidizing Properties	:	Not applicable

10. Stability and reactivity

Stability	:	Stable under normal conditions.
Conditions to Avoid	:	Avoid excessive heat for prolonged periods of time..
Hazardous Decomposition Products	:	Oxides of: Carbon. Nitrogen. Phosphorus
Hazardous Polymerization	:	Will Not Polymerise.
Hazardous Reaction	:	No data available.

11. Toxicological information

Skin corrosion/irritation		Causes severe skin burns and eye damage.
Serious eye damage/eye irritation		Causes severe skin burns and eye damage.
Inhalation		May cause irritation to the respiratory system.
Ingestion		Corrosive. Even small amounts may cause serious damage. Swallowing concentrated chemical may cause severe internal injury. May cause chemical burns in mouth, oesophagus and stomach.
STOT - repeated exposure		Based on available data, the classification criteria are not met.
Aspiration toxicity		Based on available data, the classification criteria are not met.

12. Ecological information

Toxicity	:	No toxicity studies have been conducted on this product.
Chronic aquatic toxicity	:	Not expected to demonstrate chronic toxicity to aquatic organisms
Ecotoxicity		The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.
Mobility	:	No information available

13. Disposal considerations

Waste Disposal Methods : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

14. Transport information

Land Transport :

Proper Shipping Name	:	Corrosive Liquid Organic NOS, BHMTP
UN Number		UN3265
Transport hazard class(es)	:	8
Transport hazard class(es)	:	III
Special precautions for user	:	Not applicable

Air Transport (ICAO/ IATA)

Proper Shipping Name	:	Corrosive Liquid Organic NOS, BHMTP

UN Number		UN 3265
Transport hazard class(es)	:	8
Transport hazard class(es)	:	III
Special precautions for user	:	Not applicable

Marine Transport (IMDG/IMO)

Proper Shipping Name		Corrosive Liquid Organic NOS, BHMTP
UN Number		UN 3265
Transport hazard class(es)		8
Transport hazard class(es)		III
Special precautions for user		Not applicable

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

CONTAINS BHMTP (METHYLENEPHOSPHONIC ACID)
RISK PHRASES

R34 :Causes burns.

SAFETY PHRASES
S24/25 : Avoid contact with skin and eyes.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60 : This material and its container must be disposed of as hazardous waste.

16. 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 Rx Marine International 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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