Material Safety Data Sheet

ANTI SCALANT for WASTE WATER (RXSOL-40-9103-220)

1. Product and Company Identifaction

Product Name	: ANTI SCALANT for WASTE WATER
Part Number	: RXSOL-40-9103-220

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

Name of Substance	Cas Number	EINECS No	Wt.%	Symbol
Polyacrylate, Sodium salt	9003-04-7	-------	10-20 %	Xi
Phosphonate, Sodium salt .	---	Confidential	10-50%	Xn
Proprietory Based Polymer Mixer	---	---	10-30%	

3. Hazards Identification

Classification of the mixture Regulation (EC) No 1272/2008

Signal Word	None
Hazard Statements	Keep out of reach of children. Do not eat, drink or smoke when using this product. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. keep locked if possible
Precautionary statements prevention	Keep locked up and out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Precautionary statements response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair):Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing.Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Storage: Store locked up. Store in corrosive resistant stainless steel container with a resistant inner liner. Disposal: Dispose of contents/ container to an approved waste disposal plant.

4. First Aid Measures

Eye Contact	Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Subsequently consult an with doctor
Skin Contact	Wash thoroughly with soap and water.Remove contaminated clothing. Get medical attention if skin irritation developsvor persists.
Inhalation:	Provide fresh air. Seek medical attention if problems persist.
Ingestion:	Do not feed anything by mouth to an unconscious or convulsive victim. Rinse mouth immediately. When conscious drink large quantities of water. Do not induce vomiting. Seek medical attention.
Notes to Physicians	Treat symptomatically.

5. Fire-fighting Measures

General information:	Extinguishing materials should be selected according to the surrounding area. The product itself is not combustible
Suitable extinguishing media	Carbon dioxide (CO2). Dry extinguishing powder. Water fog. Foam.
Extinguishing media which must not be used for safety reasons: High power water jet.	High power water jet.
Special exposure hazards arising from the substance itself,combustion products, resulting gases	Oxides of carbon, nitrogen and phosphorus.
Special protective equipment for fire-fighters:	In case of fire. Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
Additional information:	Contaminated fire-fighting water must be c ollected separately.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	See protective measures under point 7 and 8.
Enviromental Precaution	No special environmental protection measures are necessary.
Methods and materials for containment and cleaning up	Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal.

7. Handling and Storage

Technical meaures and storage conditions:	Provide for sufficient ventilation and punctiform suction at critical points.
Precautions against fire and explosion:	No special precautionary measures are necessary.
Packaging materials:	Keep only in the original container.

Requirements for storerooms and containers:	Keep container tightly closed in a cool, well-ventilated place.
Information about storage in one common storage facility:	Do not store together with: Food and fodder.
Further information concerning storage conditions:	None
Storage class:	12
Specific use(s):	Observe instructions for use.
Advice on safe handling	The following must be prevented: metals
Storage	Technical measures and storage conditions (avoid freezing conditions): Maximum storage temperature: 30 °C Minimum storage temperature: 5 °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.

8. Exposure controls and personal protection

Critical values of exposure:	Does not contain substances above concentration limits fixing an occupational exposure limit.
Components with workplace or biological limit values to be monitored	Limitation and monitoring of exposure Exposure limit values: Refer to chapter 7.No further action is necessary. Respiratory protection: With correct and proper use,and under normal conditions, breathing protection is not required. Eye protection : Splash proof safety goggles Hand protection:Suitable gloves type: Pull-over gloves of rubber. Body protection: Protective clothing. Environmental exposure controls: Refer to chapter 7.No further action is necessary. General protection and hygiene measures: Do not eat, drink, smoke or sniff at the workplace. Wash hands before breaks and at the end of work. Apply skin care products after work. Wash contaminated clothing prior to re-use.



Gloves



Suit

9. Physical and chemical properties

Form	Liquid
Colour	Clear, Pale Yellow
Odour	Characteristic
Boiling point and boiling range	100 - 105 °C
Flash Point	100°C
pH	Acidic
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	No data available
Relative vapor density	No data available

Relative density	1.14 - 1.17 g/cm³
Water solubility	Unlimited
Solubility in other solvents	No data available
Partition coefficient: octanol	No data available
Viscosity	50 mPas (20 °C)
Explosive properties	No data available
Oxidizing properties	No data available
Molecular weight	No data available
Melting point / melting range:	-10 °C

10. Stability and reactivity

Conditions to avoid:	None
Dangerous reactions	A slow reaction with some metallic surfaces might occur. No dangerous reaction known under conditions of normal use. Avoid to contact with strong acids Avoid to contact with oxidizing agents. Store away from aldehydes.
Hazardous Decomposition	Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx).phosphorus oxides
Materials to avoid	None

11. Toxicological information

Specific symptoms from animal test	Acute toxicity, oral (LD50): Rat > 5000 mg/kg Acute toxicity, dermal (LD50): Rabbit > 5000 mg/kg.
Route of Exposure	Inhalation, Eye contact, Skin contact
Eyes	Not an irritant.
Skin	Not an irritant.
Ingestion	Causes digestive tract burns
Effect after repeated or prolonged exposure	There are no data available on the preparation/mixture itself.
Sensitization	There are no data available on the preparation/mixture itself.
Acute toxicity	There are no data available on the preparation/mixture itself.
CMR effects (carcinogen, mutagenic and toxicity for reproduction)	There are no data available on the preparation/mixture itself.
Additional information	There are no data available on the preparation/mixture itself.
General remarks	According to our experience and the information available to us, the product has no negative impact on health.

12. Ecological information

Ecotoxicity:	Acute fish toxicity (LC50): Oncorhynchus mykiss (Rainbow Trout) > 290 mg/l (96 h) Bacterial toxicity (EC0): n.a.
Mobility:	There are no data available on the mixture itself

Persistence and Biodegradation:	Technically correct releases of minimal concentrations to adapted biological sewage treatment facility will not disturb the biodegradability of activated sludge
Bioaccumulative potential	There are no data available on the mixture itself.
Results of PBT assessment	There are no data available on the mixture itself.
Other harmful effects	There are no data available on the mixture itself.
Mobility	There are no data available on the mixture itself.

13. Disposal considerations

Contaminated packaging:	Cleaned and empty containers may be recycled. Handle contaminated packaging in the same way as the substance itself.
Additional information	Waste disposal according to official state regulations.
General information	Can be incinerated together with household waste in compliance with official regulations after consulting approved waste disposal companies and authorities in charge.
Waste Code	The assignment of waste codes / waste designations is done according to the European directory of waste codes (AVV) and to specific processes. The final user must redefine and assign the most appropriate Waste Catalogue Code

14. Transport information

Overland transport (ADR/RID)	Technical name: Scale Inhibitor Antiscalant 9000 Not classified as a dangerous good under transport regulations
Transport by sea (IMDG)	Proper Shipping name: ROPUR RPI-3000A Not classified as a dangerous good under transport regulations
Air transport (ICAO-TI / IATA-DGR)	Proper Shipping name: ROPUR RPI-3000A Not classified as a dangerous good under transport regulations

15. Regulatory information

Water Hazard Class	1 Slightly water polluting substance
Classification	Product is classified and labelled in accordance with EC regulations or the corresponding national laws.
National regulations	Moreover, national legislation has to be observed!
Storage class	12 Non-flammable liquids

16. Other information

Other	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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