

1. Product and Company Identification

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Product Name Polyelectrolyte Cationic Liquid
Part Number RXSOL-40-4046-210

Company Details:....

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / Information on ingredients

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No Regulated Components

3. Hazards Identification

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GHS Classification H412 Hazardous to the aquatic environment, Long term hazard, Category 3
Symbol(s) None
Signal Word None
Hazard statement Harmful to aquatic life with long lasting effects.
Precautionary statement Avoid release into the environment.

4. First Aid Measures

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Inhalation Remove person to fresh air if having difficulty breathing.
Skin Contact Wash thoroughly with soap and water for 15 minutes.
Eye Contact Flush eyes with copious amounts of water for 15 minutes. Seek medical attention if irritation persists.
Ingestion Do not induce vomiting. Give water to dilute. Contact a physician if a large quantity of the product has been consumed.
Note to physicians None

5. Fire-fighting Measures

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Hazardous Combustion Products Oxides of carbon and nitrogen.
Unusual Fire or Explosion Hazards Not applicable
Sensitivity to Mechanical Impact None
Rate of Burning Not applicable

Explosive Power	Not applicable
Sensitivity to Static Discharge	None
Fire Extinguishing Media	Use media suitable to extinguish source of fire.
Instructions to the Fire Fighters	See below
Fire Fighting Protective Equipment	Wear full protective clothing and a self-contained breathing apparatus.

6. Accidental Release Measures

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Leak And Spill Procedure	Prevent entry into drains, sewers and waterways. Soak up spill with absorbent material. Sweep up and put into dry, clean and labelled containers for disposal. Due to the slippery nature of this product, clean up spills immediately and completely.
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7. Handling and Storage

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HANDLING

Handling Practices	Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Ventilation Requirements	Keep away from alkalis, strong oxidizing agents and metals. Provide containment walls of adequate capacity to hold any accidental spills.

STORAGE

Ventilation Requirements	Store in a cool, dry area. Do not freeze.
Storage Requirements	Store at room temperature. Keep containers tightly closed when not in use.

8. Exposure controls and personal protection

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Engineering Controls	None required.
PERSONAL PROTECTIVE EQUIPMENT	
Skin (Specify)	Rubber, PVC or latex gloves if skin contact is likely
Eye (Specify)	Safety glasses if eye contact is likely
Respiratory (Specify)	None
Other (Specify)	Eye wash and shower stations are close to work area if needed.

9. Physical and chemical properties

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Physical state	Liquid
Odour & Appearance	Clear thick blue liquid, mild odour
Odour Threshold	Not applicable
Auto Ignition Temperature (Celsius)	Not applicable
Upper Explosion Limit (% By Volume)	Not applicable
Lower Explosion Limit (% By Volume)	Not applicable
Decomposition Temp (°C)	Not applicable
Specific Gravity	1.010
Viscosity	1300 cps min.
Vapour Pressure	Not available
Vapour Density (Air-1)	Not available
Flashpoint (°C)	Not available
Evaporation Rate	Not available
Boiling Point (°C)	100°C
Freezing Point (°C)	0°C

Solubility In Water (20°C)	Soluble
% Volatile (By Volume)	94%
pH	8 - 10
Coefficient Of Water/Oil Distribution	Not applicable

10. Stability and reactivity

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Chemical stability	Yes X No
If So, Which Ones	Strong oxidizers and strong alkalis e.g. ammonia and caustic soda.
Conditions to avoid	Contact with incompatible materials.
Hazardous decomposition products	Oxides of carbon and nitrogen.

11. Toxicological information

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ACUTE HEALTH EFFECTS

Inhalation	None
Skin Contact	May cause mild irritation.
Eye Contact	May cause mild irritation.
Ingestion	May cause gastritis ☐ stomach upset, nausea, vomiting and diarrhea.

CHRONIC HEALTH EFFECTS

Other Health Effects	None known
LD 50 of Material (Specify Species and Routes)	Not available
Exposure (Limits)	Not available
Irritancy of Material	None established
Sensitization of Material	Mild skin and eye irritant
Synergistic Materials	None known
Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity	None known

12. Ecological information

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Ecotoxicity	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
ALGAE TEST RESULTS	Acute Toxicity, Seawater (ISO 10253) 72 h, Marine Algae (Skeletonema Costatum): 0.75 mg/l IC50 Growth Inhibition (OECD 201) 96 h, Green Algae (Selenastrum Capricornutum): >10-100 mg/l IC50
FISH TEST RESULTS	Acute Toxicity, Freshwater (OECD 203) Zebra Fish (Brachydanio Rerio): >10-100 mg/l LC50 Acute Toxicity, Seawater (Parcom)
INVERTEBRATE TEST RESULTS	Juvenile Turbot (Scophthalmus Maximus): 1769 mg/l LC50 Acute Immobilization (OECD 202) Water Flea (Daphnia Magna) : >10-100 mg/l EC50 Acute Invertebrate Toxicity, Seawater (Parcom) Marine Copepod (Acartia Tonsa): 204 mg/l EC50 Immobilization Acute Immobilization (OECD 202) Water Flea (Daphnia Magna) : >10-100 mg/l EC50 Acute Invertebrate Toxicity, Seawater (Parcom) Marine Copepod (Acartia Tonsa): 204 mg/l EC50 Immobilization

Biodegradability	This material is not readily biodegradable.
Bioaccumulative Potential	Not available
Mobility In Soil	Not available

13. Disposal considerations

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Waste Disposal	Dispose absorbed material in accordance with federal, provincial and local regulations.
Safe Handling of Residues	Remove residues by scrubbing.
Disposal of Packaging	Dispose absorbed material in accordance with federal, provincial and local regulations.

14. Transport information

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CANADIAN TDG ACT SHIPPING DESCRIPTION

Proper shipping name	Not regulated
Class	Not applicable
Packing group	Not applicable
UN	Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name	Not regulated
Class	Not applicable
Packing group	Not applicable
UN	Not applicable

15. Regulatory information

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WHMIS	Non Controlled
CPR Compliance	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
USA	Not available
INTERNATIONAL	Not available

16. Other information

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Other Information	<p>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 we 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.</p>
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