

Product Name: Polyelectrolyte Cationic Liquid**Part No / SKU:** RXSOL-40-4046-210**Date of Issue:** September 24, 2026**Document Type:** Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

No Regulated Components

3. HAZARDS IDENTIFICATION

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

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

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

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

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 / PERSONAL PROTECTION

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

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

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

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	None known
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

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) Juvenile Turbot (Scophthalmus Maximus): 1769 mg/l LC50
INVERTEBRATE TEST RESULTS	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

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

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

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 AND DISCLAIMER

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 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. DISCLAIMER OF LIABILITY : The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.
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