Material Safety Data Sheet

Acrylamide Acrylic Amide (RXSOL-81-1636-025)

1. Product and Company Identifaction

Product Name	Polyelectrolyte (Polyacrylamide Type)
Product Type	RXSOL-19-1636-050

Company Details:

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

Stock Point : Mumbai, Kolkata, Chennai, Gandhidham, Visakhapatnam, Fujairah, Muscat

Phone	+91 22 27815541 / 42
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Email	mail@rxmarine.com

2. Composition / informationon ingredients

Ingredient	CAS No	Percent
Potassium salt	Confidential	10 - 20%

Trade secret information: A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

3. Hazards Identification

Hazard Classification

Unknown toxicity

Acute toxicity, oral 0.0 %

Acute toxicity, dermal 0.0 %

Acute toxicity, inhalation, vapor 37.4 %

Acute toxicity, inhalation, dust 38.2 %

or mist

Label Elements:

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement:

Precautionary Statement

Prevention: Avoid release to the environment.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None identified.

4. First Aid Measures

Ingestion:	Treat symptomatically. Get medical attention.
Inhalation:	Remove exposed person to fresh air if adverse effects are observed.
Skin Contact:	Wash with soap and water. If skin irritation occurs, get medical attention.
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses.

Most important symptoms/effects, acute and delayed

Symptoms: See section 11.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically

5. Fire-fighting Measures

General Fire Hazards: No unusual fire or explosion hazards noted. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: CO2, dry chemical, foam, water spray, water fog.

Unsuitable extinguishing media: Not determined.

Specific hazards arising from the chemical: Material will not burn until water has been evaporated. Container may rupture on heating. When heated, hazardous gases may be released including: sulfur dioxide. See section 10 for additional information.

Special protective equipment and precautions for firefighters Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots

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6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Ventilate area if spilled in confined space or other poorly ventilated areas. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations.
Methods and material for containment and cleaning up:	Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Wash area with soap and water. Spilled liquid and dried film are slippery. Use care to avoid falls.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

Precautions for safe handling:	Do not breathe dusts or mists. Do not get in eyes, on skin, on clothing. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Launder contaminated clothing before reuse. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid breathing mists or vapors. When using do not eat, drink or smoke. Stir well before use. Keep containers closed when not in use. Minimize contact with air to reduce contamination with mold, fungus, or other organisms which could cause decomposition or spoilage. Wash thoroughly after handling. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid environmental contamination.
Maximum Handling Temperature:	Not determined.

Conditions for safe storage, including any incompatibilities:	Store away from incompatible materials. See section 10 for incompatible materials. Keep from freezing. Do not store in open, unlabeled or mislabeled containers.
Maximum Storage Temperature:	Not determined.

8. Exposure controls and personal protection

Control Parameters:

Occupational Exposure Limits

None of the components have assigned exposure limits.

Other exposure limits

Chemical name	type	Exposure Limit Values	Source
Propionic acid	TWA	10 mg/m3	

Appropriate engineering controls: Use material in well ventilated area only. Adequate ventilation should be provided so that exposure limits are not exceeded. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required.

Eye/face protection: If contact is likely, safety glasses with side shields are recommended.

Skin Protection

Hand Protection: Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves. Suitable gloves can be recommended by the glove supplier.

Other: Gloves, coveralls, apron, boots as necessary to minimize contact.

Respiratory Protection: A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color: White

Odor: Slight

Odor threshold: No data available.

pH: 2.5 - 3.5

Freezing point: -1 °C

Boiling Point: 214 °F (101 °C)

Flash Point: Not applicable.

Evaporation rate: 1 n-butyl acetate=1

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits Flammability limit - upper (%): No data available.

Flammability limit - lower (%): No data available.

Explosive limit - upper (%): No data available.

Explosive limit - lower (%): No data available.

Vapor pressure: Approximate 17 torr (20 °C 68 °F)

Vapor density: 1

Relative density: 1.15 68 °F (20 °C)

Solubility(ies) Solubility in water: Dispersible Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: 100 mPa.s (77 °F (25 °C))

Other information VOC: 0.5 %

Percent Solid: 37 % (Percent by Weight)

Percent volatile: 63 %(Percent by Weight)

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: Do not freeze.

Incompatible Materials: Alkalies. Bases. Strong oxidizers

Hazardous Decomposition Products: Irritating and toxic substances may be emitted upon combustion, burning, or decomposition of dry solids. Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide , sulfur oxides, mercaptans, sulfides, including hydrogen sulfide and other products of incomplete combustion. Thermal decompositon may generate phosphorus oxides and other phosphorus containing compounds. Thermal decompositon may generate potassium oxides and other potassium containing compounds. Thermal decompositon may generate sodium oxides and other sodium containing compounds.

11. Toxicological information

Information on likely routes of exposure Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity Oral Product: May cause irritation of the gastrointestinal tract. Not classified for acute toxicity based on available data.

Dermal Product: Not classified for acute toxicity based on available data.

Inhalation Product: Overexposure to vapors or mist may cause dizziness, headache, nausea, and/or flu-like symptoms. Persons with sensitive airways (e.g., asthmatics) may react to vapors. Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:

Product: Prolonged or repeated contact may cause irritation.

Pre-existing skin conditions may be aggravated by prolonged or repeated exposure. Prolonged or repeated exposure may cause severe irritation.

Remarks: Not classified as a primary skin irritant.

Serious Eye Damage/Eye Irritation:

Product: Remarks: Not classified as a primary eye irritant.

Respiratory sensitization: No data available

Skin sensitization: No data available

Specific Target Organ Toxicity - Single Exposure: No data available

Aspiration Hazard: No data available

Other effects:

Acrylic copolymer Persons with sensitive airways (e.g., asthmatics) may react to vapors.

Chronic Effects Carcinogenicity: No data available

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified US.

National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified Germ Cell Mutagenicity: No data available

Reproductive toxicity: No data available

Specific Target Organ Toxicity - Repeated Exposure: No data available

12. Ecological information

Ecotoxicity

Fish Product: LC 50 (Fathead Minnow, 4 d): 996 mg/l

Potassium salt LC 50 (Rainbow Trout, 4 d): 368 mg/l

Aquatic Invertebrates

Product: EC 50 (Water flea (Daphnia magna), 2 d): 659 mg/l

Potassium salt EC 50 (Water flea (Daphnia magna), 2 d): 527 mg/l

Toxicity to Aquatic Plants Product: EC 50 (Alga, 3 d): 307 mg/l

Potassium salt EC 50 (Green algae (Selenastrum capricornutum), 14 d): 39 mg/l

EC 50 (Green algae (Selenastrum capricornutum), 4 d): 9.16 mg/l

Toxicity to soil dwelling organisms No data available

Sediment Toxicity No data available

Toxicity to Terrestrial Plants No data available

Toxicity to Above-Ground Organisms No data available

Toxicity to microorganisms No data available

Persistence and Degradability

Biodegradation

Potassium salt OECD TG 302 B, 33 %, 28 d

OECD TG 301 D, 5 %, 30 d

Bioaccumulative Potential Bioconcentration Factor (BCF) No data available

Partition Coefficient n-octanol / water (log Kow) No data available

Mobility: No data available

Other Adverse Effects: No data available.

13. Disposal considerations

Disposal instructions:	Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.
Contaminated Packaging:	Container packaging may exhibit hazards.

14. Transport information

DOT Not regulated.

IMDG Not regulated.

IATA Not regulated.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

None known.

Shipping descriptions may vary based on mode of transport, quantities ,temperature of the material, package size, and/or origin and destination It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Review classification requirements before shipping materials at elevated temperatures.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

Inventory Status Australia (AICS) This product requires notification before sale in Australia.

Canada (DSL/NDSL) All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

China (IECSC) This product may require notification in China. European Union (REACh) To obtain information on the REACH compliance status of this product, please visit Lubrizol.com/REACH, or e-mail us at REACH_MSDS_INQUIRIES@Lubrizol.com

Japan (ENCS) May require notification in Japan.

Korea (ECL) This product requires notification before sale in Korea.

New Zealand (NZIoC) All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS) All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS) All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Taiwan (TCSCA) This product requires notification before sale in Taiwan.

United States (TSCA) All components of this material are on the US TSCA Inventory. The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3

16. Other information

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents.The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product .in terms of safety requirements and does not signify any warranty with regard to the product's properties The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other.

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