

# Material Safety Data Sheet

Primary cationic Flocculant Sewage Treatment (RXSOL-91-9103-050)



## 1. Product and Company Identification

Product Name Primary cationic Flocculant Sewage Treatment  
Part Number RXSOL-91-9103-050

Company Details:  
RX MARINE INTERNATIONAL  
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## 2. Composition / information on ingredients

| Name of Substance                        | Cas Number   | EC Number | Wight %   |
|------------------------------------------|--------------|-----------|-----------|
| Polyaluminiumchloride hydroxide silicate | 1327-41-9    | 215-477-2 | 30 - 60   |
| Polydiallyldimethyl amoniumchloride      | 26062 - 79-3 |           | 10 - 25 % |

## 3. Hazards Identification

|                                       |                                                                                                                                                                                                                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                           | Irritant                                                                                                                                                                                                                                                                      |
| Hazard Statements                     | H290 May be corrosive to metals.<br>H318 Causes serious eye damage                                                                                                                                                                                                            |
| Precautionary statements - prevention | P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P234 Keep only in original container.                                                                                                                                                      |
| Precautionary statements - response   | P305+P351+P338<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 Immediately call a POISON CENTER/doctor/physician/first aider.<br>P390 Absorb spillage to prevent material damage. |

## 4. First Aid Measures

|                    |                                                                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention                                                                                  |
| Skin Contact       | Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.                                                                                                       |
| Inhalation:        | Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.                                                                                    |
| Ingestion:         | Do not induce vomiting. Obtain medical attention. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. |
| Notes to Physician | Treat symptomatically                                                                                                                                                                              |

## 5. Fire-fighting Measures

Flammability Non-flammable.

|                                            |                                                                                                                                      |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Flash Point                                | Not applicable.                                                                                                                      |
| Suitable extinguishing media               | No information available                                                                                                             |
| Hazardous combustion products              | Non combustible.                                                                                                                     |
| Protective Equipment                       | Use personal protective equipment.                                                                                                   |
| Specific Hazards Arising from the Chemical | Not considered to be a significant fire risk. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. |

## 6. Accidental Release Measures

|                                                    |                                                                                                                                                                                                                               |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Small Spillage                                     | Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements |
| Personal Protection                                | Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.                |
| Environmental Precaution                           | Do not let product enter drains.                                                                                                                                                                                              |
| Methods and materials for containment and cleaning | Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts                         |

## 7. Handling and Storage

|                                        |                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling                               | Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids. |
| Storage                                | Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F). Packing : Only packagings which are approved (e.g. acc. to ADR) may be used.                                                                                                                               |
| Advice on general occupational hygiene | Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.                                                                                                                                                                                                 |

## 8. Exposure controls and personal protection

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Control      | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.                                                                                                                                                                                                                                                                                                   |
| Personal Protection      | Eye/face Protection : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.<br>Skin and body protection : Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator exposure limits are exceeded or if irritation or other symptoms are experienced. |
| Other Protection Measure | Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



Gloves



Suit

## 9. Physical and chemical properties

|                |                           |
|----------------|---------------------------|
| Appearance     | Off White Granular Powder |
| Chemical Type  | Cationic Polyacrylamide   |
| Odour          | No Information Available  |
| Odor Threshold | No Information Available  |

|                              |                      |
|------------------------------|----------------------|
| pH                           | 3-5                  |
| Molecular Wt                 | Very High            |
| Bulk Density                 | Not Applicable       |
| Evaporation Rate             | Not Applicable       |
| Flammability (solid, gas)    | No Data Available    |
| Explosive limits             | No Data Available    |
| Vapour pressure              | No Data Available    |
| Vapour Density               | Not Applicable       |
| Relative density Information | 1.10 - 1.30 at 25 °C |
| Partition coefficient        | No data available    |
| Explosive properties         | None                 |
| Solubility                   | Soluble in water     |

## 10. Stability and reactivity

|                                    |                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------|
| Recativity                         | None known, based on information available                                                              |
| Stability                          | Product is stable.                                                                                      |
| Possibility of hazardous reactions | No known hazardous reactions.                                                                           |
| Conditions to avoid                | To avoid thermal decomposition, do not overheat. Incompatible products. Exposure to moist air or water. |
| Incompatible materials             | Strong oxidizing agents, Alaklinr materials.                                                            |
| Hazardous Polymerization           | Hazardous polymerization does not occur.                                                                |

## 11. Toxicological information

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                            |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|
| Acute toxicity                                    | LD50 Oral<br>13000 mg/kg[2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LD50 Dermal<br>>2000 mg/kg ( Rabbit ) | LC50 Inhal.<br>Not listed. |
| Skin corrosion/irritation                         | Corrosion : None. Mild Erritation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       |                            |
| Toxic Effects on Humans                           | Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |                            |
| Special Remarks on Chronic Effects on Humans      | May cause adverse reproductive effects (male and female effects on fertility and effects on newborns and fetotoxicity) based on animal data Human: passes the placental barrier, detected in maternal milk.                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                            |
| Special Remarks on other Toxic Effects on Humans: | Repeated or prolonged exposure to acids may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Gastrointestinal disturbances may also occur.<br>Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems |                                       |                            |

## 12. Ecological information

|                                    |                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Eco Toxicity                       | Not Available                                                                                                         |
| COD and BOD 5                      | Not Available                                                                                                         |
| Products of Biodegradation:        | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. |
| Mobility in soil                   | Will likely be mobile in the environment due to its water solubility.                                                 |
| Results of PBT and vPvB assessment | PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.                           |
| Other adverse effects              | Discharge into the environment must be avoided.                                                                       |

## 13. Disposal considerations

Waste treatment Method      Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself

## 14. Transport information

### DOT

|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| UN Number            | UN3264                                                                                      |
| Proper shipping name | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (polyaluminiumchloridehydroxysilicate solution) |
| Hazard Class         | 8                                                                                           |
| Packing group        | III                                                                                         |

### TDG

|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| UN Number            | UN3264                                                                                      |
| Proper shipping name | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (polyaluminiumchloridehydroxysilicate solution) |
| Hazard Class         | 8                                                                                           |
| Packing group        | III                                                                                         |

### IATA

|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| UN Number            | UN3264                                                                                      |
| Proper shipping name | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (polyaluminiumchloridehydroxysilicate solution) |
| Hazard Class         | 8                                                                                           |
| Packing group        | III                                                                                         |

### IMDG/IMO

|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| UN Number            | UN3264                                                                                      |
| Proper shipping name | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (polyaluminiumchloridehydroxysilicate solution) |
| Hazard Class         | 8                                                                                           |
| Packing group        | III                                                                                         |

## 15. Regulatory information

Federal and State Regulation      TSCA 8(b) inventory: Water

Other Regulation      OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

WHMIS (Canada)      : Corrosive Liquid

DSCL (EEC)      R34- Causes burns. 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. S28- After contact with skin, wash immediately with plenty of [\*\*\*] S37/39- Wear suitable gloves and eye/face protection. S38- In case of insufficient ventilation, wear suitable respiratory equipment.

### HMIS

Health Hazard : 3

Fire Hazard : 0

|                     |     |
|---------------------|-----|
| Reactivity          | : 0 |
| Personal Protection | : E |
| Fire :              |     |
| Health Hazard       | : 3 |
| Fire Hazard         | : 0 |
| Reactivity          | : 0 |
| Specific Hazard     | : E |

## 16. Other information

### Other Information

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