Material Safety Data Sheet

Polyacrylamide PAM Emulsion Waste Water Treatment (RXSOL-40-4160-210)

1. Product and Company Identifaction

Product Name	RXSOL-40-4160-050
Product Type	Anionic Polyacrylamide Flocculant

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

Branch Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat, Nairobi Kenya, Canada

Phone	+91 22 27815540 / 41 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	**123@rxmarine.com**
Website	**www.rxmarine.com**

2. Composition / informationon ingredients

This material is classified as not hazardous under OSHA regulations.

3. Hazards Identification

Colour: off-white
Appearance: Clear
State of matter: Powder
Odour: Characteristic Odour
Health: May cause mild eye irritation.
Physical/Chemical hazards: Slip hazard when wet., Refer to MSDS Section 7 for Dust Explosion information.

Potential health effects
Primary routes of entry:
Skin, Eyes, Inhalation, Ingestion

4. First Aid Measures

Inhalation: Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.

Skin: After contact with skin, wash immediately with plenty of water and soap. Get medical attention if irritation occurs. If clothing is contaminated, remove and launder before reuse.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion: Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Seek medical attention immediately.

5. Fire-fighting Measures

Suitable extinguishing media: carbon dioxide, dry powder, foam

Unsuitable Extinguishing Media: If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist.

Hazardous combustion products: Burning may produce toxic combustion products., Carbon and nitrogen oxides.

Hazards during fire-fighting: The product becomes slippery when wet. Restrict pedestrian and vehicular traffic in areas where slip hazard may exist. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

Protective equipment for fire-fighting: Wear self-contained breathing apparatus and chemical-protective clothing.

6. Accidental Release Measures

Cleanup: Product becomes slippery and difficult to handle when wet. Sweep up and shovel into suitable containers for disposal. Avoid raising dust. Wear suitable protective equipment. Should not be released into the environment **.**

Further information: Spills are very slippery. Restrict pedestrian and vehicular traffic in area of spill until spill is thoroughly cleaned up.

7. Handling and Storage

Handling: As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale. Do not taste or swallow. Use only with adequate ventilation.

Protection against fire and explosion:

Combustible powder. - Avoid creating dusty conditions. - Grounding is required when emptying into a conductive container. - When flammable solvents are present, the container must be inerted or the system otherwise designed to prevent or contain an explosion. Seek expert advice. In addition, for products packaged in fused-lined (coated) fiber drums, fiber drums with conductive liners, steel drums, steel pails, and Type " C " FIBC (bulk bags), or other conductive the following instructions also apply: - Always ground this package before emptying. The user is responsible for designing the system to handle solid and ensuring proper training of employees in the system's use.

Storage: Keep container tightly closed in a dry, cool and well-ventilated place.

> For industrial use only

8. Exposure controls and personal protection

Engineering Controls: Work in well ventilated areas. Do not breathe dust. Personal protective equipment

Respiratory protection: Use NIOSH approved respirator as needed to mitigate exposure.

Eye protection: Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures.

Body protection: Wear chemical resistant gloves and protective clothing. Eye wash station and safety shower should be available in immediate work area.



Gloves



Suit

9. Physical and chemical properties

Colour	:	Off-white
State of matter	:	Powder
Odour	:	Characteristic Odor
PH value	:	Not tested
Evaporation rate	:	Not tested
Flash point	:	Not applicable
Melting point	:	Not applicable
Boiling point	:	Not applicable
Vapour pressure	:	Not applicable
Bulk density	:	Approx. 750 kg/m3
Vapour density	:	Not applicable
Partitioning coefficient noctanol water	:	Not applicable
Viscosity, dynamic	:	Not tested
% Volatiles	:	Not determined
Solubility in water	:	Soluble

10. Stability and reactivity

Stability: Stable .

Conditions to avoid: Avoid humidity. Avoid temperature extremes. Avoid electro-static discharge. Avoid sources of ignition.

Substances to avoid: strong oxidizing agents, Incompatible with liquid chlorine, Oxygen, sodium/calcium hypochlorite.

Possibility of Hazardous Reactions: No hazardous reactions known.

Hazardous decomposition products: No decomposition expected under normal storage conditions.

11. Toxicological information

Acute oral toxicity	:	LD50 / oral / rat: > 2,000 mg/kg By analogy
Acute inhalation toxicity	:	Not determined
Acute dermal toxicity	:	Not determined
Skin irritation	:	Not determined
Eye irritation	:	Not determined
Skin Sensitization	:	Not determined
Subacute Toxicity	:	Not determined
Subchronic Toxicty	:	Not determined
Chronic toxicity	:	Not determined
Genetic toxicity	:	Not expected to be mutagenic
Carcinogenicity	:	None of the components in this product at concentrations greater than 0.1%
Reproductive toxicity	:	No data for product. No effects anticipated
Develop toxicity	:	No data for product. No effects anticipated

12. Ecological information

Toxicity to fish: Brachydanio rerio/96 h/LC50: 357 mg/l (OECD 203; ISO 7346; 92/69/EEC, C.1)

Toxicity to aquatic invertebrates:

Daphnia magna/48 h/EC50: 212 mg/l (OECD 202/EC C.2)
Daphnia magna/48 h/LC50: > 1,000 mg/l
(under static conditions in the presence of 10 mg/L humic acid)
Daphnia magna/48 h/EC50: > 50 mg/l
(under static conditions in the presence of 20 mg/L humic acid)

Toxicity to aquatic plants:
Chlorella vulgaris/72 h/EC50: > 1,000 mg/l (OECD 201/EC C. 3)

Toxicity to microorganisms:
Pseudomonas putida/24 h/EC50: 892 mg/l
From tests on a product range

Other ecotoxicological advice: Product not considered toxic to aquatic organisms.

13. Disposal considerations

Waste disposal of substance: Dispose of in accordance with national, state and local regulations.
Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

14. Transport information

NOTE:

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

Road transport:
Special shipping information: Not classified as a dangerous good .

Air transport:
Special shipping information: Not classified as a dangerous good .

International Air Transport Association (IATA)

Special shipping information: Not classified as a dangerous good under transport regulations.

International Maritime Dangerous Goods Code (IMDG)

Special shipping information: Not classified as a dangerous good under transport regulations.

15. Regulatory information

United States - Regulations
SARA Section 311/312 Hazard Communication Standard:

Acute Health: N Fire: N
Chronic Health: N Reactivity: N
Sudden release of pressure: N

SARA Section 313 Toxic Chemical List: This product does not contain any components reportable under Sec 313 (40 CFR 372).

OSHA hazard category: This material is classified as not hazardous under OSHA regulations.

Toxic Substances Control Act (TSCA) Section 5(f): This product is not subject to a Section 5(f)/6(a) rule.

Toxic Substances Control Act (TSCA) Section 12(b) Export Notification: No components listed.

Clean Air Act - Hazardous Air Pollutants (HAP):

Chemical name	CAS Number	Notification
2-Propenoic acid	79-10-7	Listed
2-Propenamide	79-06-1	Listed

Clean Air Act 602 - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307(2)(1) Priority Pollutant List (40 CFR 401.15).

California Proposition 65 - Chemicals Known to the State to Cause Cancer:

Chemical name	CAS Number	Notification
2-Propenamide	79-06-1	Carcinogenic.

WARNING: This product contains a chemical known to the State of California to cause cancer.

16. 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 RX Marine International 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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