Material Safety Data Sheet

Coagulant FLOC (RXSOL-81-4089-210)

1. Product and Company Identifaction

Product Name	RXSOL-81-4089-210
Product Type	EWT Coagulant

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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Stock Point : Mumbai, Kolkata, Chennai, Visakhapatnam, Gandhidham, Fujairah, Muscat, Canada

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2. Composition / informationon ingredients

Hazardous Components	CAS-No.	EINECS-No.	Concentration	Symbol(s)	R-phrase(s)
DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND NMETHYLMETHANAMINE	42751-79-1		>=25 - 40%		R52/53
Anionic polyacrylamide	9003-05-8		40- 50		R36 R37 R38
Dialuminium chloride pentahydroxide	12042-91-0	234-933-1	>=25 - 40%	Xi	R36/37/38

For the full text of the R-phrases mentioned in this Section, see Section 16.

3. Hazards Identification

Hazard Summary	Irritant
Risks	Irritating to eyes, respiratory system and skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First Aid Measures

General Information	Consult a physician. Show this safety data sheet to the doctor in attendance.
Eyes	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If symptoms persist, call a physician.Move to fresh air. If symptoms persist, call a physician. In case of shortness of breath, give oxygen.

5. Fire-fighting Measures

Suitable extinguishing media	ABC powder, Carbon dioxide (CO2), Dry chemical, Water mist
Unsuitable extinguishing media	DO NOT USE: Halons
Hazardous combustion products	Carbon dioxide and carbon monoxide, nitrogen oxides (NOx), Hydrogen, Sulphur oxides
Thermal decomposition	No data available
Precautions for fire-fighting	Do not allow run-off from fire fighting to enter drains or water courses. Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Personal protective equipment	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. Accidental Release Measures

Personal precautions	Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Large spills should be collected mechanically (remove by pumping) for disposal. Keep in suitable, closed containers for disposal.
Other information	Comply with all applicable federal, state, and local regulations.

7. Handling and Storage

Handling	Do not breathe vapours or spray mist. Avoid contact with skin and eyes. For personal protection see section 8. Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding of the given occupational exposure limits (see section 8). Smoking, eating and drinking should be prohibited in the application area. Normal measures for preventive fire protection.
Storage	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Stable under recommended storage conditions. Protect from frost.

8. Exposure controls and personal protection

Exposure Guidelines

Dialuminium chloride pentahydroxid (eCAS 12042-91-0)

MAC (NL)	2 mg/m3

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Ensure that eyewash stations and safety showers are close to the workstation location.

Exposure controls
Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear as appropriate: Safety shoes

Wear resistant gloves such as: Neoprene, butyl-rubber

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

9. Physical and chemical properties

Physical state	Liquid
Form	No data available
Colour	Yellow
Odour	No data available
Boiling point/boiling range	(>)100,00 °C
Melting point/range	()-4 °C
Sublimation point	No data available
pH	(+/- 0.7)4
Flash point	Not applicable
Ignition temperature	No data available
Evaporation rate	No data available
Lower explosion limit / Upper explosion limit	No data available
Dust explosion class	No data available
Dust explosion constant	No data available
Burning number	No data available
Particle size	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	(+/- 0.14)1,235 g/cm3 @ 77 °F / 25 °C
Bulk density	no data available
Solubility(ies)	no data available
Partition coefficient: n-octanol/water	no data available
log Pow	no data available
Autoignition temperature	no data available
Viscosity, dynamic	(+/- 81)225 mPa.s @ 25 °C
Viscosity, kinematic	no data available
Hydrolysis	no data available
Physico-chemical removability	no data available

10. Stability and reactivity

Stability	No hazards to be specially mentioned.
Conditions to avoid	Freezing temperatures.
Incompatible products	Aluminum, Copper, Iron, strong mineral acids, Strong oxidizing agents
Hazardous decomposition products	Carbon dioxide and carbon monoxide, nitrogen oxides (NOx), Hydrogen
Hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological information

Exposure routes ::: Skin contact, Eye Contact, Ingestion

Eye contact ::: Causes eye irritation.

Skin contact ::: Causes skin irritation.

Ingestion ::: Not known to be harmful if swallowed.

Inhalation ::: Not known to be harmful if inhaled.

Aggravated Medical Condition ::: No data available

Symptoms ::: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

Target Organs ::: No data available

Acute oral toxicity

DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND NMETHYLMETHANAMINE (42751-79-1)	: LD 50 Rat: 5.000 mg/kg
Dialuminium chloride pentahydroxide (12042-91-0)	: no data available

Acute inhalation toxicity

DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND NMETHYLMETHANAMINE (42751-79-1)	: no data available
Dialuminium chloride pentahydroxide (12042-91-0)	: no data available

Acute dermal toxicity

DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND NMETHYLMETHANAMINE (42751-79-1)	: LD 50 Rabbit: > 2.000 mg/kg
Dialuminium chloride pentahydroxide (12042-91-0)	: no data available

12. Ecological information

Elimination information (per sistence and degradability)

Biodegradability

DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND NMETHYLMETHANAMINE (42751-79-1)	: no data available
Dialuminium chloride pentahydroxide (12042-91-0)	: no data available

Physico-chemical removability

DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND NMETHYLMETHANAMINE (42751-79-1)	: no data available
Dialuminium chloride pentahydroxide (12042-91-0)	: no data available

Bioaccumulation : The bioaccumulation potential cannot be determined.

Ecotoxicity effects

Toxicity to fish

DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND NMETHYLMETHANAMINE (42751-79-1)	: no data available
Dialuminium chloride pentahydroxide (12042-91-0)	: no data available

Toxicity to daphnia and other aquatic inver tebrates.

DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND NMETHYLMETHANAMINE (42751-79-1)	: no data available
Dialuminium chloride pentahydroxide (12042-91-0)	: no data available

Toxicity to algae

DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND NMETHYLMETHANAMINE (42751-79-1)	: no data available
Dialuminium chloride pentahydroxide (12042-91-0)	: no data available

Toxicity to bacter ia

DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND NMETHYLMETHANAMINE (42751-79-1)	: no data available
Dialuminium chloride pentahydroxide (12042-91-0)	: no data available

13. Disposal considerations

Waste disposal methods

Dispose of in accordance with the European Directives on waste and hazardous waste. Do not contaminate ponds, waterways or ditches with chemical or used container. Container hazardous when empty. Dispose of in accordance with local regulations.

Empty packaging

Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

European Waste Catalogue

The Waste code should be assigned in discussion between the user and the waste disposal company.

14. Transport information

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

ADR

Not dangerous goods

ADNR

Not dangerous goods

RID

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. Regulatory information

Hazard symbols

Irritant

R-phrase(s)

R36/37/38	Irritating to eyes, respiratory system and skin.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39	Wear suitable gloves and eye/face protection.
S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

Notification status

US. Toxic Substances Control Act	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA).	y (positive listing)
Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)Japan. Kashin-Hou Law List	n (Negative listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	n (Negative listing)
China. Inventory of Existing Chemical Substances	n (Negative listing)

ABM Class
ABM 8A Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

ABM Class
ABM 8A Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R36/37/38 Irritating to eyes, respiratory system and skin.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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