

Product Name	Flocculant (Cationic Polymers)
Part Number	RXSOL-32-3109-023

Company Details:

RX MARINE INTERNATIONAL

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Name of Substance	Cas Number	EC Number	Weight %	Polyaluminiumchloride Hydroxide
Silicate 1327-41-9 215-477-2 30-60	Polydiallyldiemethyl Amoniumchloride	26062-79-3	10-25	
Proprietary Blend of POWDER MIXTURE	-----	-----	15-40	

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

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	

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.			

**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.

**Enviromental 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

**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.

**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.

**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

Form	Liquid	Colour	Clear	Odour	No Information Available	Odor Threshold	No Information
Available	pH	1 - 2	Freezing Point	-25 °C	Boiling Point	100 - 120 °C / 2534 °F @ 760 mmHg	
Flash Point	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						

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.			

Acute toxicity	LD50 Oral	LD50 Dermal	LC50 Inhal.	
13000 mg/kg[2]	>2000 mg/kg ( Rabbit )	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.

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

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.			

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

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

Fedral 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					

#### Other Information

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