Material Safety Data Sheet

EGR FLOCCULANT (RXSOL-40-3105-025)

1. Product and Company Identifaction

Product Name	Poly aluminum Chloride 25Ltr Liq.
Product Type	RXSOL-40-4097-025

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

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Vizag Visakhapatnam, Fujairah, Muscat, Canada, Kenya Africa

Phone	+91 22 65113333/ 5555 / 9999 / 27611360 / 27815540
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2. Composition / informationon ingredients

Components	CAS Number	Proportion	Hazard Codes
Water	7732-18-5	50%	-
PolyAluminium Chloride	1327-41-9	20%	H302 H315 H319
Proprietory blend of polymer based flocculant	-	30%	-

3. Hazards Identification

Not classified as a Dangerous Good under NZS 5433:2012 Transport of Dangerous Goods on Land.
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

SIGNAL WORD: WARNING

Subclasses:

Subclass 6.1 Category D	Substances which are acutely toxic.
Subclass 6.3 Category A	Substances that are irritating to the skin.
Subclass 6.4 Category A	tances that are irritating to the eye,

Hazard Statement(s):

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary Statement(s):
Prevention:

P102	Keep out of reach of children.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection

Response:

P301+P312 IF SWALLOWED	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P302+P352 IF ON SKIN	Wash with plenty of soap and water.
P321	Specific treatment (see First Aid Measures on the Safety Data Sheet).
P332+P313 If skin irritation occurs	Get medical advice/attention.
P362	Take off contaminated clothing before re-use.
P305+P351+P338 IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists	Get medical advice/attention.

Storage: No storage statements.

Disposal:
P501 In case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

4. First Aid Measures

Inhalation	Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
Skin Contact	If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.
Eye Contact	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.
Ingestion	Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek medical assistance..

Indication of immediate medical attention and special treatment needed:
Treat symptomatically.

5. Fire-fighting Measures

Suitable Extinguishing Media:
Not combustible, however, if material is involved in a fire use: Extinguishing media appropriate to surrounding fire conditions.

Specific hazards arising from the substance or mixture:
Non-combustible material.

Special protective equipment and precautions for fire-fighters:
Decomposes on heating emitting toxic fumes, including those of hydrogen chloride . Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

6. Accidental Release Measures

Emergency procedures/Environmental precautions:
Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:
Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

7. Handling and Storage

Precautions for safe handling:
Avoid skin and eye contact and breathing in vapour, mists and aerosols.

Conditions for safe storage, including any incompatibilities:
Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

8. Exposure controls and personal protection

Workplace Exposure Standards:
No value assigned for this specific material by the New Zealand Department of Labour (Health & Safety). However, Workplace Exposure Standard(s) for constituent(s):
Aluminium, as Al: Soluble salts WES-TWA 5 mg/m3
As published by the New Zealand Department of Labour (Health & Safety).

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Appropriate engineering controls:
Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards.Keep containers closed when not in use.

Individual protection measures, such as Personal Protective Equipment (PPE):
The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Orica Personal Protection Guide No. 1, 1998: F - OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, DUST MASK.
Wear overalls, chemical goggles and impervious gloves.Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.If risk of inhalation exists, wear suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. Physical and chemical properties

Information on basic physical and chemical properties:

Physical state	Clear Liquid
Colour	Pale Amber
Odour	Mild
Solubility	Soluble in water.
Specific Gravity	1.20-1.30 @20°C (at 10.1% Al2O3)
Relative Vapour Density (air=1)	Not available
Vapour Pressure (20 °C)	Not available
Flash Point (°C):	Not available
Autoignition Temperature (°C):	Not available
Flammability Limits (%):	Not available
Boiling Point/Range (°C	Not available
Decomposition Point (°C)	Not available
pH	3-5 @25°C
Freezing Point/Range (°C)	12.0 (approx.)

10. Stability and reactivity

Reactivity	Reacts with chlorates. Reacts with chlorites.
Chemical stability:	Slowly corrodes metals.
Possibility of hazardous reactions	Reacts with calcium hypochlorite , acids , and alkalis .
Conditions to avoid	None known.

Incompatible materials	Incompatible with calcium hypochlorite , acids , alkalis , and metals .
Hazardous decomposition products:	Hydrogen chloride.

11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion	Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation.
Eye contact	An eye irritant.
Skin contact	Contact with skin will result in irritation.
Inhalation	Breathing in mists or aerosols may produce respiratory irritation.
Acute toxicity	No LD50 data available for the product. However, for constituent(s) POLYALUMINIUM CHLORIDE: Oral LD50 (rat): 681 mg/kg. Oral LD50 (mice): 316 mg/kg.
Chronic effects	No information available for the product.

12. Ecological information

Ecotoxicity
Avoid contaminating waterways.

13. Disposal considerations

Disposal Methods:
Refer to local government authority for disposal recommendations. Dispose of material through a licensed waste contractor.Normally suitable for disposal at approved land waste site.

14. Transport information

Road and Rail Transport	Not classified as a Dangerous Good under NZS 5433:2012 Transport of Dangerous Goods on Land.
Marine Transport	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.
Air Transport	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

15. Regulatory information

Classification:
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.
Subclasses:

Subclass 6.1 Category D	Substances which are acutely toxic.
Subclass 6.3 Category A	Substances that are irritating to the skin.
Subclass 6.4 Category A	Substances that are irritating to the eye.

Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2006

Hazard Statement(s):

H302	Harmful if swallowed

H315	Causes skin irritation.
H319	Causes serious eye irritation.

16. Other information

Text of R and S phrase codes used in this safety data sheet:- R34: Causes burns; R36: Irritating to eyes; R37: Irritating to respiratory system; R41: Risk of serious damage to eyes. 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 application(s) without seeking advice from manufacturer.

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