

Coagulant Inorganic Alkaline (RXSOL-40-6263-250)

MATERIAL SAFETY DATA SHEET • SALALAH CHEMICAL, OMAN

1. Product and Company Identification

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Product Name	Coagulant Inorganic Alkaline
Product Code	RXSOL-40-6263-250

Company Details:

RX MARINE INTERNATIONAL

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2. Composition / Information on ingredients

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Chemical Name	CAS Number	Concentration	
Aluminate blend	-	20-30%	
Sodium Hydroxide	1310-73-2	10-20%	
Water	7732-18-5	40-50%	

3. Hazards Identification

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Hazard Statements: H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

Supplementary Precautionary Statements:

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe vapour/spray.

Wash contaminated skin thoroughly after handling.

Specific treatment (see medical advice on this label).

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Wash contaminated clothing before reuse.

Store locked up.

Other hazards: The hazardous nature of this material is due primarily to the high level of free sodium hydroxide, so the information on this sheet is based on that known for sodium hydroxide solution.

4. First Aid Measures

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Description of first aid measures:

General information: Seek medical attention immediately, or transport to hospital, while administering emergency measures. Speed is essential!

Inhalation: Rinse nose, mouth, and throat with running water.

Ingestion: Do not induce vomiting. If confined to the mouth, rinse mouth thoroughly and ensure water is not swallowed. If substance has been swallowed, give water or milk to drink immediately.

Skin contact: Remove contaminated clothing. Flush skin thoroughly with water.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Most important symptoms and effects, both acute and delayed

General information: Strong corrosive action on all body tissue, causing burns and frequently deep ulceration, and ultimately scarring.

Indication of any immediate medical attention and special treatment needed

5. Fire-fighting Measures

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-Non combustible.

-Product will not ignite, but may burn. Caution: Sufficient heat may produce toxic gases. In contact with water and metals, flammable hydrogen gas can be generated which can result in a fire hazard. Sealed containers can rupture violently in the heat of a fire-Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions.

Extinguishing Media : Dry chemical, foam, carbon dioxide. Do not use water; corrosive sulfuric acid will form.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures: Wear protective clothing as described in Section 8 of this safety data sheet. In case of spills, beware of slippery floors and surfaces.

Environmental precautions: Do not allow to enter drains, sewers or watercourses. Release to rivers will cause a strong increase in pH, resulting in death to aquatic organisms.

Methods and material for containment and cleaning up Small Spillages: Neutralise with weak acid and wash away with water. Large Spillages: Isolate and pump into a tank. Keep people and animals away from contaminated areas. Do not contaminate water sources or sewer. Dam and absorb spillages with sand, earth or other non-combustible material.

7. Handling and Storage

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Handling : All employees who handle this material should be trained to handle it safely. Do not breathe dust. Avoid all contact with skin and eyes. Use this product only with adequate ventilation. Wash thoroughly after handling.

Storage Procedures : Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Use corrosion-resistant structural materials, lighting, and ventilation system in the storage area. Floors should be sealed to prevent absorption of this

material. Have appropriate extinguishing equipment in the storage area (i.e., sprinkler system, portable fire extinguishers). Empty containers may contain residual particulates; therefore, empty containers should be handled with care. Do not cut, grind, weld or drill near this container. Never store food, feed, or drinking water in container that held this product. Keep this material away from food, drink and animal feed. Inspect all incoming containers before storage, to ensure container are properly labeled and not damaged. Do not store this material in open or unlabeled containers. limit quantity of material stored. Store in suitable containers that are corrosion-resistant. Keep containers closed-material is hygroscopic.

8. Exposure controls and personal protection

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PERSONAL PROTECTIVE EQUIPMENT

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132). Please reference applicable regulations and standards for relevant details.

Eyes/Face : Wear chemical safety goggles. If necessary, refer to U.S. OSHA 29 CFR 1910.133.

Skin: Where contact is likely, wear chemical resistant gloves, rubber boots, and coveralls. Buty rubber, natural rubber, polyethylene, polyvinyl chloride or neoprene gloves are recommended. Gloves should be tested to determine suitability for prolonged contact with this material.

Respiratory : None required where adequate ventilation condition exist. If airborne concentrations are above the applicable exposure limits, use approved respiratory protection. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmosphere, use of a full-facepiece pressure/demand SCBA or full facepiece.

General : Wash hands thoroughly after handling material. Do not eat, drink or smoke in work areas. Have a safety shower or eye-wash fountain available. Use good hygiene practices when handling this material including changing and laundering work clothing after use. Discard contaminated shoes and leather goods.



Gloves



Suit

9. Physical and chemical properties

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Physical state	Liquid
Colour	Clear - brown - yellowish brown
Odour	Odourless
Melting point/freezing point	>-10 °C
Boiling point or initial boiling point and boiling range	100 °C at 1.013 hPa
Flammability	Non-combustible
Density	> 1.1
pH (value)	> 11

10. Stability and reactivity

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Conditions to avoid: Will absorb carbon dioxide from the air, to form sodium carbonate.

Materials to avoid: Reacts violently with strong acids, amphoteric metals such as aluminium, its alloys, magnesium, zinc, tin and bronze to release hydrogen gas. May react violently with acrolein, acrylonitrile, and allyl alcohol. Heating with trichloroethylene will form explosive mixtures of dichloroacetylene. Reaction with ammonium compounds releases ammonia. Some plastics, leather and

textiles are destroyed on contact.

Hazardous decomposition products: Thermally stable to boiling point; does not decompose. Mixture with water or acids will release large quantities of heat, and may cause accidents.

11. Toxicological information

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Acute toxicity: Acute Toxicity (Oral LD50) > 2000 mg/kg

Acute Toxicity (Inhalation LC50) > 888 mg/l (vapours) Rat 4 hours

Skin Corrosion/Irritation: Corrosive to skin.

General information: Strong corrosive action on all body tissue, causing burns and frequently deep ulceration, with ultimate scarring.

Inhalation: Mist/droplets are corrosive to the respiratory tract, and will cause a burning sensation in the throat, coughing and breathing difficulties. Pulmonary oedema (excessive liquid in lungs) can occur after inhalation of higher amounts.

Ingestion: If ingested will cause severe damage to gastrointestinal tract. Can cause perforation and scarring.

Skin contact: Corrosive to body tissue, causing burns, deep ulceration, and scarring. Frequent contact with lower concentrations may cause eczema.

Eye contact: Corrosive to eyes, may cause severe corneal damage, reduced vision, or even blindness.

12. Ecological information

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Ecotoxicity: Spillage will cause localised damage to animals and plants on the ground. Do not allow release into controlled waters; resulting high pH will affect aquatic life forms. If allowed to enter drains will damage effluent treatment organisms. Neutralisation and dilution will greatly reduce these effects. Product is chemically degradable into sodium carbonate.

Toxicity: LC 50, 96 Hrs, Fish mg/l: >100 EC 50, 48 Hrs, Daphnia mg/l: 0.72 IC 50, 72 Hrs, Algae mg/l: 0.97

Persistence and degradability: Degradability: The product is degraded completely by hydrolysis. Bioaccumulative potential: Bioaccumulation factor BCF 36

Mobility in soil: Results of PBT and vPvB assessment: Not Classified as PBT/vPvB by current EU criteria.

13. Disposal considerations

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Waste treatment methods: Do not dispose directly into rivers or drains Spills should be contained, then neutralised by careful addition of a dilute acid such as hydrochloric acid. The resulting alumina suspension may be regarded as neutral waste, and disposal should be in accordance with local, state or national legislation.

14. Transport information

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UN number: UN No. (ADR/RID/ADN): 1819

UN proper shipping name: SODIUM ALUMINATE SOLUTION

Transport hazard class (es):

ADR/RID/AND class: Class 8: Corrosive substances.

15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture: Chemical Safety Assessment: No chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other information

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Risk Phrases in full: R35: Causes severe burns.

NC: Not classified.

R41: Risk of serious damage to eyes. Hazard Statements in full Causes: H318: Serious eye damage. H314: Causes severe skin burns and eye damage.

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by RX Marine International who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

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