

FORE and AFT (RXSOL-16-3012-025)

MATERIAL SAFETY DATA SHEET • SALALAH CHEMICAL, OMAN

1. Product and Company Identification

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Product Name	FORE & AFT
Product Type	RXSOL-16-3012-025

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Components

Material	CAS Number
Alcohol Ethoxylate	68439-46-3
Disodium Meta Silicate	6834-92-0
Propylene Glycol n-Butyl Ether	5131-66-8
Sodium Carbonate	497-19-8
Mixture of Alkylglucocide	161074-93-7
2-2(butoxyethoxy)ethanol	112-34-5

3. Hazards Identification

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Potential Health Effects

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation. There are no reports of human sensitization.

Eye Contact: May cause eye irritation. Ingestion: Harmful if swallowed.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

4. First Aid Measures

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First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT : In case of contact, immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reuse.

EYE CONTACT : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION : If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians : Activated charcoal mixture may be beneficial. Suspend 50 g activated charcoal in 400 mL water and mix well. Administer 5 mL/kg, or 350 mL for an average adult.

5. Fire-fighting Measures

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Flammable Properties : Not a fire or explosion hazard.

Extinguishing Media : Use media appropriate for surrounding material.

Fire Fighting Instructions : Evacuate personnel to a safe area. Wear self-contained breathing apparatus (SCBA) and full protective equipment.

6. Accidental Release Measures

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Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Initial Containment

Dike spill.

Spill Clean Up

Dispose of in an approved container.

7. Handling and Storage

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Handling (Personnel) : Avoid inhalation. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Wash clothing after use.

Handling (Physical Aspects) : Keep container tightly closed.

Storage : Store in a cool, dry place. Avoid freezing or extended storage in high temperatures.

8. Exposure controls and personal protection

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Physical Data

Boiling Point : 100 C (212 F)

pH : 11.5-12.5

Odor : Mild.

Form : Liquid.

Color : Clear (slightly hazy).

Specific Gravity : 1

Where there is potential for skin contact, have available and wear as appropriate impervious gloves, apron or smock. Exposure Guidelines Applicable Exposure Limits Monoethanolamine

PEL (OSHA) : 3 ppm, 6 mg/m³, 8 Hr. TWA

TLV (ACGIH) : 3 ppm, 7.5 mg/m³, 8 Hr. TWA STEL 6 ppm, 15 mg/m³

AEL * (DuPont) : 3 ppm, 8 & 12 Hr. TWA Propylene Glycol n-Butyl Ether

AEL * (DuPont) : 50 ppm, 8 & 12 Hr. TWA* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

9. Physical and chemical properties

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Boiling Point :	100 C (212 F)
pH :	11.5-12.5
Odor :	Mild.
Form :	Liquid.
Color :	Yellow (slightly).
Specific Gravity :	1

10. Stability and reactivity

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Chemical Stability: Stable.

Incompatibility with Other Materials: Incompatible or can react with acids, strong oxidizers.

Decomposition: Thermal decomposition may produce carbon dioxide, carbon monoxide.

11. Toxicological information

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11.1 Information on toxicological effects

- LD50 (oral,rat) (Alcholethoxylate) >300 mg/kg
- LD50 (oral,rat) (Alkylglucoside) 2000-5000 mg/kg

11.2 Contact with eyes

- May cause irritation

11.3 Contact with skin

- In cases of severe exposure, irritation may develop

11.4 Ingestion

- The ingestion of significant quantities may cause gastro-intestinal disturbances

11.5 Inhalation

- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract

12. Ecological information

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12.1 Toxicity

- LC50 (fish) (alcholethoxylate) 1-10 mg/l (96 hr)

- LC50 (fish) (Alkylglucoside) 558 mg/l (96 hr)
- LC50 (fish) (2-(2-butoxyethoxy)ethanol) >2500 mg/l (96 hr)
- Biodegradability. OECD-test. 28 days >60 % (Alkyl glucoside)
- Biodegradability. OECD-test. 28 days >60 % (2-(2-Butoxyethoxy)ethanol)
- "In general, this cleaning agent poses little danger to the environment, its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable."
- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

12.2 Persistence and degradability

- The components in this product are readily biodegradable. 12.3 Bioaccumulation Potential
- Bioaccumulation of the components in this product is insignificant. 12.4 Mobility in soil
- Completely soluble in water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

13. Disposal considerations

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Waste Disposal : Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

14. Transport information

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Shipping Information : Not Regulated as a hazardous material by DOT, IMO, or IATA.

15. Regulatory information

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Inventory Status : Listed.

16. Other information

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

1. Product and Company Identification

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