Material Safety Data Sheet

ALFAREX (RXSOL-15-3052-025)

1. Product and Company Identifaction

Product Name	: ALFAREX
Part Number	: RXSOL-15-3052-025

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

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2. Composition / informationon ingredients

Name of Substance	Cas Number	Wt.%
n-Alkyl(50%C14,40%C12,10%C16)Dimethyl Benzyl Ammonium Chloride	68424-25-1	8 - 10 %
Didecyl Dimethyl Ammonium Chloride	7173-51-5	8 - 10%
Other Ingredients		70 - 80%

3. Hazards Identification

Potential Acute Health Effects:

May cause irritation effects to nose, throat and respiratory tract. Avoid Contact with Skin, eyes and mouth. Ingestion may cause nausea and vomiting. Harmful if swallowed. Seek Medical Advice. Call medical attendant, doctor, or poison control center immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Get medical attention immediately. Take off contaminated clothing. Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately. If breathing is difficult: Remove to fresh air. If person is not breathing, call an ambulance and then give artificial respiration, preferably by mouth to mouth, if possible. Get medical attention immediately.

4. First Aid Measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation:	If inhaled, If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion:	If swallowed, do not induce vomiting. Allow victim to rinse his mouth and then to drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physicians	Treat symptomatically.

5. Fire-fighting Measures

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Protective Equipment	Use personal protective equipment.
Advice for firefighters	Wear self-contained breathing apparatus. Wear full protective equipment.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Store in a dry, cool and well-ventilated area. Protect from freezing. Keep container tightly closed. KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes, skin and clothing. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling.
Enviromental Precaution	Do not allow contact with soil, surface or ground water.If the products get into drains, inform the relevant authorities immediately.
Methods and materials for containment and cleaning up	Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.Avoid breathing vapors or spray mists. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY

7. Handling and Storage

Advice on safe handling	Do not ingest. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling.
Storage	Do not store near acids. Keep out of reach of children. Store in suitable labeled containers. Storage temperature : 10 °C to 50 °C
Advice on general occupational hygiene	Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.

8. Exposure controls and personal protection

Engineering Control	Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
Personal Protection	**Eye protection :** Wear eye protection/ face protection. **Hand protection :** Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. **Skin protection :** Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing **Respiratory protection :**When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Exposure Limits:

Ingredients	CAS No	Form of exposure	Value	UK EH40 OES (table 2)
Sulphur Dioxide	7446-09-5	TWA	5.3 mg/m3	2 ppm
		STEL	13 mg/m3	5 ppm
Ethane-1-2-Diol	107-21-1	TWA	52 mg/m3	20 ppm
		STEL	104mg/m3	40 ppm
Oropan-2-ol	67-63-0	TWA	999 mg/m3	400 ppm
		STEL	1,250 mg/m3	500 ppm

Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.



Gloves



Suit

9. Physical and chemical properties

Form	Liquid
Colour	Colourless to slightly Yellow
Odour	Acrid, slight odour of Sulphur dioxide
Boiling point and boiling range	No Data Available
Flash Point	>100°C
Freezing Point	No Data Available
pH	6
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Explosive properties	No data available
Vapor pressure	No data available

Relative vapor density	No data available
Relative density	1.05-1.11 g/cm3 (25?C)
Water solubility	Soluble
Solubility in other solvents	No data available
Partition coefficient: octanol	No data available
Autoignition temperature	No data available
Thermal decomposition	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Molecular weight	No data available
VOC	No data available

10. Stability and reactivity

Recativity	None
Stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Incompatible materials	Avoid to contact with strong acids Avoid to contact with oxidizing agents. Store away from aldehydes.
Hazardous Decomposition	Decomposition products may include the following materials: Sulphurous oxides (SOx) Nitrous oxides (NOx) Ammonia Amines
Condition to Avoid	None Known
Polymerization	Will not occur.

11. Toxicological information

Route of Exposure	Inhalation, Eye contact, Skin contact
Eyes	Causes serious eye damage.
Skin	Causes severe skin burns.
Ingestion	Causes digestive tract burns
Inhalation	Inhalation of vapours leads to irritation of respiratory tract and mucous membranes, headache, nausea, dizziness, vomiting. Sensitisation possible through inhalation
Chronic Exposure	Health injuries are not known or expected under normal use.
Acute oral toxicity	LD50 200-2,000mg/kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Classification	The classification was made by the conventional (calculation) method of Dangerous Preparations Directive(1999/45/EC)

12. Ecological information

Environmental Effects	No data available
Toxicity to fish	No data available
Toxicity to daphnia and others	No data available
Toxicity to algae	No data available
Biodegradability	> 60% (28 d)

Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available

13. Disposal considerations

Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
Waste Disposal	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility

14. Transport information

Hazard Pictograms:

UN Number	UN3265
Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2-Di-Bromo-3-Nitrilo-Propionamide)
Transport hazard class(es) 8	
ADR/RID	8
Subsidiary risk IMDG	8
Subsidiary risk IATA	8
Packing group	
Packing group	III
Environmental hazards	
Environmental hazards	No
Marine pollutant	No
ADR/RID	
Hazard ID	80
Tunnel Category	(E)
IMDG	
EmS Code	F-A S-B
IATA	
Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

15. Regulatory information

Regulations	In accordance with REACH Regulation (EC) No 1907/2006 as last amended with respect to SDS provisions by Commission Regulation (EU) 2015/830. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
Chemical safety assessment	No data available.

Further information	FOR INDUSTRIAL USE. Water Hazard Class:. WGK 1. PR Number - 1821143. Product Declaration Number - P-14188 (Norwegian).

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if **Rx Marine International** has been advised of the possibility of such damages.