Material Safety Data Sheet

Antifouling Liquid (RXSOL-40-4038-025)

1. Product and Company Identifaction

Product Name	RXSOL-40-4038-025
Product Type	**Antifouling Liquid**

Company Details:

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

Stock Point: Dubai, Muscat, Kenya, Uganda, Mumbai, Kandla, Vizag, Kolkata, Chennai

Phone	+91 22 65113333 / 5555 / 9999
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Components	CAS-No.	Percentage	EINECS-No.	Concentration
Sodium Oleate	143-19-1	2-5	205-591-0	>=2.5 - 5
Propritary Blend	--	95-98	--	--

3. Hazards Identification

Does not content any hazardous data

4. First Aid Measures

General Information	First aid is not normally required. If symptoms develop, seek medical attention.
Eyes	Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.Remove contact lenses.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Inhalation	Move to fresh air. If symptoms persist, call a physician. In case of shortness of breath, give oxygen.

5. Fire-fighting Measures

Suitable extinguishing media	ABC powder, Dry chemical, Water mist, Carbon dioxide (CO2)
Unsuitable extinguishing media	DO NOT USE: Halons

Hazardous combustion products	carbon dioxide and carbon monoxide
Thermal decomposition	no data available
Precautions for fire-fighting	Do not allow run-off from fire fighting to enter drains or water courses. Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Personal protective equipment	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. Accidental Release Measures

SECTION VI: TOXICOLOGICAL DATA

Personal precautions	Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Methods for cleaning up
Methods for cleaning up	Neutralise with acid. Large spills should be collected mechanically (remove by pumping) for disposal. Keep in suitable, closed containers for disposal.
Other information	Comply with all applicable federal, state, and local regulations.

7. Handling and Storage

Handling	Do not breathe vapours or spray mist. For personal protection see section 8. Avoid exceeding of the given occupational exposure limits (see section 8). Smoking, eating and drinking should be prohibited in the application area. No special handling advice required. Normal measures for preventive fire protection.
Storage	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Stable under recommended storage conditions. Protect from frost.

8. Exposure controls and personal protection

Exposure Guidelines

General advice	These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities. Ensure that eyewash stations and safety showers are close to the workstation location. Always have on hand a first-aid kit, together with proper instructions.
Exposure controls	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).
Eye protection	Safety glasses with side-shields
Skin and body protection	
Wear as appropriate	Safety shoes
Wear resistant gloves such as	Nitrile rubber
Respiratory protection	No personal respiratory protective equipment normally required.

9. Physical and chemical properties

Physical	liquid
Form	Aqueous solution
Colour	colourless
Odour	no data available
Boiling point/boiling range	100.00 °C @ 760.00 mmHg
Melting point/range	no data available
pH	(+/- 1.8) 10.5
Flash point	no data available
Evaporation rate	(>) 1 (Ethyl Ether)
Lower explosion limit/Upper explosion limit	2.6 %(V) / 12.6 %(V)
Vapour pressure	17.50 mmHg @ 68.00 °F
Vapour density	(>) 1 (AIR=1)
Density	(+/- 0.01) 1.010 g/cm3 @ 68 °F / 20 °C
Solubility Water	soluble
Partition coefficient: n-octanol/water	no data available
log Pow	no data available
Autoignition temperature	no data available
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available

10. Stability and reactivity

Stability	No hazards to be specially mentioned.
Conditions to avoid	None known.
Incompatible products	Strong oxidizing agents
Hazardous decomposition products	carbon dioxide and carbon monoxide
Hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological information

Exposure routes	Skin contact, Eye Contact, Ingestion
Eye contact	May irritate eyes.
Skin contact	May irritate skin.
Ingestion	Not known to be harmful if swallowed.

Inhalation	Not known to be harmful if inhaled.
Aggravated Medical Condition	Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, asthma-like conditions)
Symptoms	Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)
Target Organs	no data available
Component data	
Acute oral toxicity	
Sodium oleate	no data available
Acute inhalation toxicity	
Sodium oleate	no data available
Acute dermal toxicity	
Sodium oleate	no data available

12. Ecological information

Product information	96 h LC 50 Oncorhynchus mykiss (rainbow trout) static test: 412.0 mg/l Information given is based on data on the components and the ecotoxicology of similar products. 96 h LC 50 Pimephales promelas (fathead minnow) static test: 65.9 mg/l
Aquatic toxicity	48 h LC 50 Daphnia magna (Water flea) static test: 116.6 mg/l Information given is based on data on the components and the ecotoxicology of similar products.
Environmental fate and pathways	
Biodegradation	
BOD5	260,000 mg/l Based on a similar product formulation.
COD	610,800 mg/l Based on a similar product formulation.
Bioaccumulation	The bioaccumulation potential cannot be determined.

13. Disposal considerations

Waste disposal methods	Dispose of in accordance with the European Directives on waste and hazardous waste. Container hazardous when empty. Dispose of in accordance with local regulations.
Empty packaging	Empty remaining contents.
European Waste Catalogue	The Waste code should be assigned in discussion between the user and the waste disposal company.

14. Transport information

ADR	Not dangerous goods
ADNR	Not dangerous goods
RID	Not dangerous goods
INTERNATIONAL MARITIME DANGEROUS GOODS	Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO	Not dangerous goods
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER	Not dangerous goods

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. Regulatory information

Product Use Description	professional use
Hazard symbols	none
R-phrase(s)	
S-phrase(s)	
Contains	

16. Other information

Full text of R-phrases referred to under sections 2 and 3	
R36/38	Irritating to eyes and skin.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).