Material Safety Data Sheet

Seawater Dispersant SWD (RXSOL-40-4003-026)

1. Product and Company Identifaction

Product Name	Seawater Dispersant SWD
Part Number	RXSOL-40-4003-026

Company Details:

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

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2. Composition / informationon ingredients

Chemical Name	CAS	EC number	Weight
Quaternary ammonium compounds, benzyl-C12- 16-alkyldimethyl, chlorides	68424-85-1	270-325-2	>=10 - 15%
Methanol	67-56-1	200-659-6	>=0.1 - 0.5%

3. Hazards Identification

Hazard Summary	Irritant
Risks	Risk of serious damage to eyes. .

4. First Aid Measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance
Eye Contact	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician. In case of shortness of breath, give oxygen.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Hazards	Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.
Treatment	No information available.

5. Fire-fighting Measures

Suitable extinguishing media	ABC powder, Water mist, Carbon dioxide (CO2), Dry chemical.
Unsuitable extinguishing media	Halons.
Hazardous combustion products	Carbon dioxide and carbon monoxide.

Personal protective equipment	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Thermal decomposition	No data available
Precautions for fire-fighting	Keep containers and surroundings cool with water spray.

6. Accidental Release Measures

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. No special environmental precautions required.
Methods for cleaning up	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	Avoid formation of aerosol. Do not breathe vapours or spray mist. For personal protection see section 8. Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding of the given occupational exposure limits (see section 8). Smoking, eating and drinking should be prohibited in the application area. Normal measures for preventive fire protection.
Storage	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Stable under recommended storage conditions. Protect from frost.

8. Exposure controls and personal protection

Exposure Guidelines

MAC (NL)	time weighted average	200 ppm
MAC (NL)	time weighted average	260 mg/m3
MAC (NL)	Short term exposure limit	400 ppm
MAC (NL)	Short term exposure limit	520 mg/m3
EU ELV	time weighted average	200 ppm
EU ELV	time weighted average	260 mg/m3

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. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Ensure that eyewash stations and safety showers are close to the workstation location.
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	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

9. Physical and chemical properties

Physical state	Liquid
Colour	No data available
Odour	Clear
Odor Threshold	Not Applicable
pH	(+/- 0.7) 7.8
Melting Point	Not Applicable
Boiling Point	64.70 °C
Flash Point	Not Applicable

Evaporation Rate	(>) 1 (Ethyl Ether)
Flammability (solid, gas)	No data available
Explosive limits	No Data Available
Upper/lower flammability or explosive limits	3.3 %(V) /
Autoignition temperature	Not Applicable
Decomposition temperature	No data available
Vapour pressure	169.31 hPa @ 25 °C
Density	0.989 g/cm3 @ 77 °F / 25 °C
Vapour Density	Not Applicable
Relative Density	(>) 1 (AIR=1)
Freezing point	No data available
Specific Gravity	No data available
Partition coefficient	Not Applicable
Explosive properties	No data available
Solubility	Not Applicable
Ignition temperature	No information available.
Particle characteristics	No data available

10. Stability and reactivity

Reactivity	No data available
Stability	No hazards to be specially mentioned
Possibility of hazardous reactions	Violent reactions possible with: Oxidizing agents Strong acids halogens Strong bases
Conditions to avoid	None known.
Incompatible materials	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, Inhalation
Eye contact	Causes serious eye irritation
Skin contact	May irritate skin.According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
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: Skin, lung (for example, asthma-like conditions), Liver, Central nervous system, male reproductive system, Individuals with preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.
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), Cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), Lack of coordination, confusion, irregular heartbeat, respiratory failure, coma
Target Organs	May cause damage to organs through prolonged or repeated exposure. - Kidney
Acute oral toxicity	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - 90 d - NOAEL (No observed adverse effect level) - 3.000 mg/kg Remarks: Subchronic toxicity RTECS: KN5250000 Nausea, Vomiting, Dizziness, Central nervous system depression, Aspiration or inhalation may cause chemical pneumonitis., MTBE (methyl-tert-butyl ether) is reported to metabolize to tert-butyl alcohol and formaldehyde by microsomal demethylation, MTBE (methyl-tertbutyl ether) should be considered a "potential human carcinogen" due to an increase in leydig interstitial cell tumors of testes in male rats and an increase in lymphomas, leukemias, and uterine sarcomas in female rats., In another unpublished study MTBE was shown to be carcinogenic due to "increased incidence of a rare type of kidney tumor" in male rats and an "increase in the incidence of hepatocellular adenomas" in female mice. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Acute dermal toxicity	Quaternary ammonium compounds, benzyl-C12-16- alkyldimethyl, chlorides no data available Methanol LD 50 Rabbit: 12,800 mg/kg

12. Ecological information

Biodegradation	No data available
Bioaccumulative potential	The bioaccumulation potential cannot be determined.
Component data Methanol (CAS 67-56-1)	48 h EC 50 Water flea (Daphnia magna) Static: > 10,000 mg/l

13. Disposal considerations

European Waste Catalogue	The Waste code should be assigned in discussion between the user and the waste disposal company.
Empty packaging	Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
Waste treatment Method	No data available

14. Transport information

UN number	ADR/RID:	IMDG:	IATA:
UN proper shipping name	ADR/RID:	IMDG:	IATA:
Transport hazard class(es)	ADR/RID:	IMDG:	IATA:
Packaging group	ADR/RID:	IMDG:	IATA:
Environmental hazards	ADR/RID: No	IMDG: No	IATA: No
Special precautions for user	Tunnel restriction code : (C/E)		
Further information	Not classified as dangerous in the meaning of transport regulations.		

15. Regulatory information

Product Use Description	No data available
Hazard symbols	Irritant
R-phrase(s) R41	R41 Risk of serious damage to eyes.
S-phrase(s) S23	S23 Do not breathe vapour.S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39 Wear eye/face protection. S51 Use only in well-ventilated areas. S60 This material and its container must be disposed of as hazardous waste.

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 weassume 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. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.