Material Safety Data Sheet

Biological Guard -280 Conc (RXSOL-40-4003-020)

1. Product and Company Identifaction

Product Name	:	**RXSOL-40-4003-020**
Product Type	:	BIO Antifouling GUARD Liquid

Company Details:

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

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Visakhapatnam, Fujairah, Muscat

Phone	:	+91 22 65113333 / 5555 / 9999 / 27611360
Fax	:	+91 22 2781 1318 :::AOH :0091 9821214367
Email	:	mail@rxmarine.com

2. Composition / informationon ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Amines, N-tallowalkyl trimethylendi-, diacetates	>25	68911-78-4	272-786-5	22, 34, 50	C, N
2-Butoxyethanol	>25	111-76-2	203-905-0	20/21/22, 36/38	Xn
Amines, N-tallow alkylpropylenedi	10-30	64742-94-5	265-198-5	65, 66, 51, 53	Xn, N

*See Section 16

3. Hazards Identification



Harmful



Danger For Environment

Odour	Characteristic odour
Appearance	Liquid, pale yellow, soluble in water
Contact with eyes	Risk of serious damage to eyes (R41)
Contact with skin	Causes irritation

Inhalation	Harmful by inhalation, in contact with skin and if swallowed (R20/21/22).Very toxic to aquatic organisms (R50)

4. First Aid Measures

Contact with skin	Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water.When in doubt or symptoms persist, seek medical attention Contaminated clothing should be laundered before reuse
Contact with eyes	If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes Irrigate eyes thoroughly whilst lifting eyelids. Seek immediate medical attention.Continue flushing with water until medical help arrives
Ingestion	Never make an unconscious person vomit or drink fluids.Give plenty of water to drink.Do not induce vomiting.Seek immediate medical attention
Inhalation	Remove patient to fresh air.Keep warm and at rest, in a half upright position. Loosen clothing.When in doubt or symptoms persist, seek medical attention
General	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

5. Fire-fighting Measures

- Flash point >70 deg C (CC)
- Decomposition products may include phosgene, Decomposition products may include carbon oxides
- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide (S43)
- Substance evolves toxic fumes, wear self-contained breathing apparatus
- Prevent run off water from entering drains if possible
- Use water spray or fog to knock down and absorb corrosive fumes
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback

6. Accidental Release Measures

Personal Precautions	Wear protective clothing as per section 8.Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.
Environmental Precautions	Do not allow to enter public sewers and watercourses.
Immediate Actions	Use appropriate containment to avoid environmental contamination (S57)
Clean Up Actions	Absorb spillage in inert material and shovel up.Ventilate the area and wash spill site after material pick-up is complete.
Special Precautions	Wear protective clothing as per section 8. Avoid release to the environment. Refer to special instructions/Safety data sheets (S61).Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.

7. Handling and Storage

Handling	See Section 8.Eyewash bottles should be available.Avoid contact with skin and eyes (S24/25)

Storage	Keep only in the original container in a cool, well ventilated place (S3/9/49)

8. Exposure controls and personal protection

Exposure Limits	TLV (TWA) 20 ppm, 122 mg/m3 (1,2-Dichlorobenzene).
Exposure controls	The undiluted product must not be used in a confined space without good ventilation.
Occupational exposure controls	Wear approved respirator if exposure likely to exceed MEL/OES.Wear goggles giving complete eye protection.Wear suitable protective clothing, including eye/face protection and gloves (neoprene or nitrile are recommended).


Gloves


Suit


Goggles


No_Smoking

9. Physical and chemical properties

Odour	Unpleasant odour, Strong smell of phenol
Appearance	Liquid, brown, dispersible in water
pH 10	11 (5% in 50/50 H2O-IPA mix)
Boiling point &gt	100 °C at 760 mm /Hg
Vapour pressure	not known
Vapour density	(air = 1) >01
Freezing point	0 °C at 760 mm/Hg
Insoluble in water	
Specific gravity	(water=1) 1.02
Flash point &gt	70 deg C (CC)

10. Stability and reactivity

- This article is considered stable under normal conditions, May cause rubber to swell
- Avoid overheating
- Incompatible with strong oxidizing substances, Contact with alkaline earth metals may form explosive gases, Contact with alkali metals may form explosive gases
- See Section 5

11. Toxicological information

Toxicological information	No experimental data available Inhalation.Vapours or aerosols may cause irritation of eyes, nose and respiratory tract.
Contact with skin	In cases of severe exposure, redness and irritation may develop.
Contact with eyes	Causes irritation
Ingestion	May cause gastro-intestinal disturbances.
Carcinogenicity	No evidence of carcinogenic effects.

12. Ecological information

Ecotoxicity	This product does not contain ingredients which are classified in the EU as dangerous for the environment.
Mobility	Completely soluble in water
Persistence and Biodegradability	Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.
Bioaccumulation Potential	Bioaccumulation of the components in this product is insignificant. Other Adverse Effects.No environmental problems are expected when the product is used / handled correctly.

13. Disposal considerations

Classification	This material and/or its container must be disposed of as hazardous waste EU Waste class
Disposal considerations	Do not discharge into drains or the environment, dispose to an authorised waste collection point. Disposal should be in accordance with local, state or national legislation.

14. Transport information

Proper Shipping Name

UN

Proper Shipping Name	Environmentall yhazardous substance, liquid, n.o.s. (contains alkyl propylenediamine)		
UN NO	3082		
Hazard Class	9	Packing Group	III

Road/Rail (ADR/RID)

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (contains alkyl propylenediamine)		
ADR UN No	3082		
ADR Hazard Class	9	Termcard	9-01

Sear (IMDG)

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (contains alkyl propylenediamine)		
IMDG UN No	3082		
IMDG Hazard Class	9	IMDG Pack Group	II
IMDG EmS	F-A, S-B	IMDG subrisk	-
IMDG Labels	9	IMDG Flashpoint	-

Air(ICAO/IATA)

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (contains alkyl propylenediamine)		
ICAO UnNo	3082		
ICAO Hazard Class	9	ICAO Packing Group	II
ICAO subrisk	-	ICAO Labels	9
ICAO Flash point	-		

DOT/CFR (USD epartment of Transportation

DOT Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (contains alkyl propylenediamine)		
Hazardous Material	see section 2		
Hazard Class:	9	Identification Number:	UN 3082
Product RQ (lbs):	N/A	DOT subrisk:	-
DOT Labels:	9	DOT Flash point:	-

15. Regulatory information



Harmful



Danger For Environment

Risk Phrases	Irritating to eyes (R36).
Safety Phrases Irritant	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). Wear suitable gloves and eye/face protection (S37/39).

16. Other information

Text of R and S phrase codes used in this safety data sheet:- R34: Causes burns; R36: Irritating to eyes; R37: Irritating to respiratory system; R41: Risk of serious damage to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC) This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC) This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC) Composition information in accordance with Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents: Nonionic surfactants 5-15 % Amphoteric surfactants 5 %

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