

**Product Name:** Biological Guard Antifouling

**Part No / SKU:** RXSOL-40-4003-025

**Date of Issue:** September 22, 2026

**Document Type:** Material Safety Data Sheet (MSDS)

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|              |   |                   |
|--------------|---|-------------------|
| Product Name | : | RXSOL-40-4003-025 |
| Product Type | : | BIOLOGICAL GUARD  |

### 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 | : | <a href="mailto:care@rxmarine.com">care@rxmarine.com</a> |

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name                               | Concentration | CAS Number | EC Number | R Phrases*      | Symbols |
|---------------------------------------------|---------------|------------|-----------|-----------------|---------|
| Amines, N-tallowalkyl Trimethylendiacetates | 5 - 10 %      | 68911-78-4 | 272-786-5 | 22, 34, 50      | C, N    |
| 2-ButoxyEthanol                             | 5 - 10 %      | 111-76-2   | 203-905-0 | 20/21/22, 36/38 | Xn      |
| Amines, N-tallow Alkylpropylenedi           | 10 - 15 %     | 64742-94-5 | 265-198-5 | 65, 66, 51, 53  | Xn, N   |
| Ethanediol                                  | 60-100 %      | 107-21-1   | 203-473-3 | R22             | Xn      |
| N-Coco-1,3-Diaminopropane                   | 10-24 %       | 61791-63-7 | 263-195-3 | R22-35-48/25-50 | C ,T ,N |

\*See Section 16

## 3. HAZARDS IDENTIFICATION

|                   |                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------|
| 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 / PERSONAL PROTECTION

|                                |                                                                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure Limits                | TLV (TWA) 20 ppm, 122 mg/m <sup>3</sup> (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 H <sub>2</sub> O-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      | Environmentally hazardous 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    |
| Seas (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 Department 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

|                            |                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Risk Phrases               | Irritating to eyes (R36).                                                                                                                                  |
| Safety Phrases<br>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 AND DISCLAIMER

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.

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