



RX MARINE INTERNATIONAL

Total Solution Total Protection

AN ISO CERTIFIED COMPANY



Biological Guard

Part/Order no: **Packing**

RXSOL-40-4003-20 20 Ltr

RXSOL-40-4003-25 25 Ltr

Fouling (by Micro Organism) preve-nting Agent

Biological Guard Liq.(RXSOL - 40- 4003)

Introduction:

RXSOL-40-4003 is a very effective, amine based dispersing cleaner for the control of fouling by marine growth such as algae, shellfish , mussels, barnacles and micro-organisms and fungal growth in marine sea water cooling systems. Because of its molecular film forming properties, RXSOL-40-4003 is also acts as a corrosion inhibitor due to its film forming property .

Procedure Of Use :

RXSOL-40-4003 can be used in both static and flowing systems. It should be preferably be started on a clean system from beginning stage since it is formulated to prevent growth rather than remove existing growth . (Existing Growth Can Be Clean By Using RXSOL DC 1008 / RXSOL SA 1008.) Note:- RXSOL BG 4003 Should Only Be Diluted With Fresh Water.

Dosage For sea water cooling systems:

Dose 150 500 ML of RXSOL-40-4003 for every 100 tons of sea water flowing through the system per hour. The treatment should be applied daily when the vessel is on coastal waters. Normally the treatment is not required when sailing deep sea .

For ballast tanks Dose 1 liter of RXSOL-40-4003 per 10 tons of water prior to ballasting, followed by a monthly dose of 2 liters per 100 tons. For Trim Tanks, Oil Rig Sea Legs and Similar Systems Dose 25 liters of RXSOL-40- 4003 per 100 tons of water. General Testing for bacteria can be done with our RXSOL Dip Slide Methods(Designed to check and see anytime anywhere invisible danger Bacteria / fungus grow from Cooling / Drinking water) which indicate the extent of the bacteriological contamination.

Characteristics:

Appearance	Clear yellow liquid	VERY EFFECTIVE FOR THE CONTROL MUSSELS MICRO-ORGANISMS AND BIOLOGICAL
Density	In g/cm ³ at 15° C: 1.17	Liquid treatment which is easy to use.
Flash Point	Above 75° C	Maintains heat transfer in systems.
Compatibility	No known effect	Reduces maintenance and down time. BIODEGRADABLE.
Rubber	No known effect	NOT suitable for drinking water.
Packaging	RXSOL-40-4003, 25 Ltr	No danger to marine life when used as recommended.

Note :

In cases where systems are contaminated with oil and/or scale they should be cleaned before starting to apply RXSOL-40-4001-020 .There are suitable RX BRAND products to carry out the cleaning. Degreasing should be carried out using RXSOL SC 2002 and Descaling by using RXSOL DC 1008 .

Specification :

Color	Clear / Pink (Color changes of the product cannot be excluded the effectively will however not impaired.)
Sp. Gravity	1.5 to 1.2
pH	Alkaline (11.3 - 11.8)
Odor	Slight
Boiling Point	100 degree C
Solubility	100% in water
Freezing	17 degree C

Handling :

RXSOL-40-4001-020 is an alkaline product & should be handled like other chemical Avoid contact with Eyes, Skin ,in case of contact ,wash with copious amounts of water immediately.

General Recommendation :

Nitrite (as PPM NO ₂)	0	100-200	300-600	700-900	1100-1300	1440-2400
RXSOL-404001-020/100 OL	13.0	11.3	8-10	5-7	1.5-3.5	0

Method Of Use:

- Properly clean the system with water and alkaline liquid if necessary.
- Add 0.15-1.5 % of RXSOL-40-4001 in system or recommended Nitrite level 1400 2500 ppm can be measured and controlled by any standard RXSOL test kit for Nitrite, Chloride test also helps to detect excess contamination to maintain Accepted levels.when the product is dosed as recommended limit By buffering action of 1. Properly clean the system with water and alkaline liquid, if necessary.
- Add 0.15-1.5 % of RXSOL-40-4001 in system or recommended Nitrite level 1400 2500 ppm can be measured and controlled by any standard RXSOL test kit for Nitrite, Chloride test also helps to detect excess contamination to maintain accepted levels .when the product is dosed as recommended limit By buffering action of RXSOL-40-4001 ,pH should be maintained between 8.3 and 10 by the treatment.

Note:

Initial dosage for an untreated system is 9 liters of RXSOL-40-4001-020 / 1000 liters of untreated distilled water. This will bring the treatment up to the minimum level of 1000 ppm nitrite. For best result and prolonged engine life add RXSOL-40-4001 every 500 -6500 km. or 250 to 300 hours of running time or every 2 month interval .pH should be maintained between 8.3 and 10 by the treatment.

**** Read the Material Safety Data Sheet before using this product****