

ECOSPERSE PLUS

Antifoulant and Corrosion Inhibitor for Sea Water Cooling System

Technical Information

Physical Data

Appearance:	Clear, gold liquid
Average Specific Gravity:	0.85 at 20°C.
Flash Point (PMCC):	80°C
Corrosive Action:	Metal and plastic: none. Rubber: will swell slightly.

Description

ECOSPERSE PLUS is a liquid containing a filming amine that leaves a protective water-repellent film on metal surfaces.

Advantages

- ▶ Prevents fouling of filter boxes, sea water piping, heat exchangers, and condensers by marine growth.
- ▶ Protects against corrosion by leaving a protective film on all metal surfaces.
- ▶ Ensures maximum thermal efficiency by keeping heat transfer surfaces free from deposits.
- ▶ Provides long-lasting protection, reducing maintenance and downtime.
- ▶ Can be used for the protection of sea water ballast tanks.
- ▶ Non-toxic and non-pollutant.
- ▶ Safe and easy to use.

Applications

Provides complete protection against corrosion and fouling by marine growth (algae, moss, shellfish, micro-organisms) in sea water cooling systems.

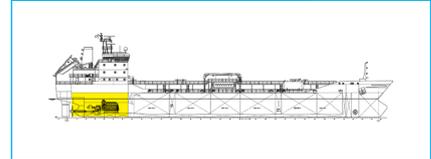
Direction for Use - Product Dose

It is essential that systems and tanks are completely free from deposits. Therefore, where necessary, clean the system with DESCALING LIQUID or POWDER before applying ECOSPERSE PLUS.

Sea Water Cooling Systems

The product should be dosed once weekly for one hour, according to the flow rate of sea water in each particular system. See the dosage curve, (Figure 2). When the vessel is at anchor or in prolific zones of shellfish, the period or frequency of treatment should be increased. A schematic diagram of the recommended installation layout is shown in Figure 1.

USAGE AREAS



Water Treatment

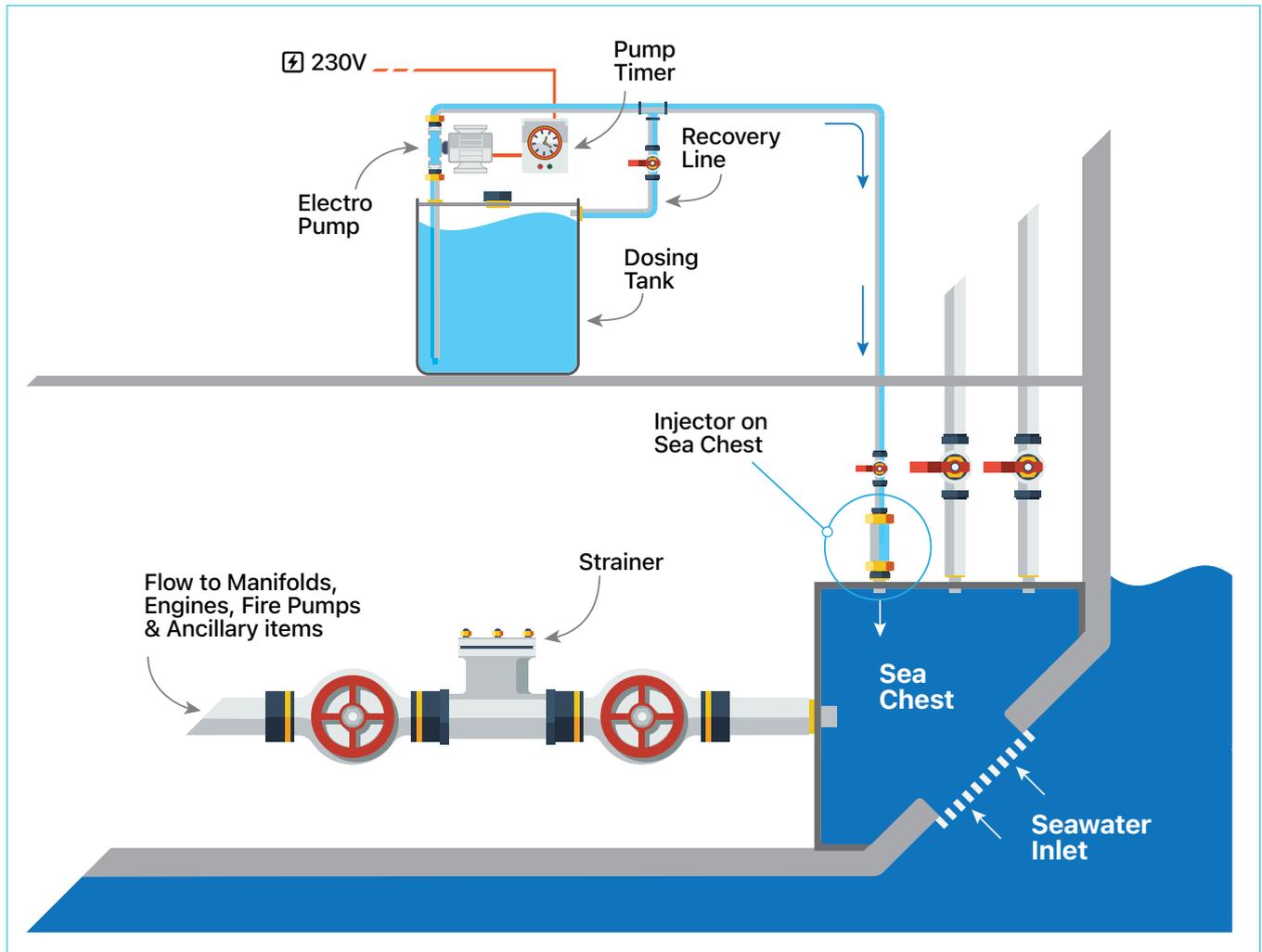
PACKAGING



ECOSPERSE PLUS

Antifoulant and Corrosion Inhibitor for Sea Water Cooling System

Typical Installation of ECOSPERSE PLUS Dosing Equipment (Fig.1)



Note

ECOSPERSE PLUS is also a recommended biocide to be used in conjunction with NCLT COOLING WATER TREATMENT in case of contamination of microorganisms in a fresh water cooling system.

It is effective over a broad pH range and provides a wider spectrum of protection against microorganism growth in marine diesel engine cooling systems.

In this case, ECOSPERSE PLUS should be used at 100 ppm, which is 1 liter for 10 tons of water added on a weekly basis. ECOSPERSE PLUS should be applied to the expansion tank to ensure immediate circulation into the system.

Deepsea Vessel

ECOSPERSE PLUS should be metered into the suction box or strainers at a rate of 0.3 liters for every 100 tons of flow over a period of one hour every **48 hours**.

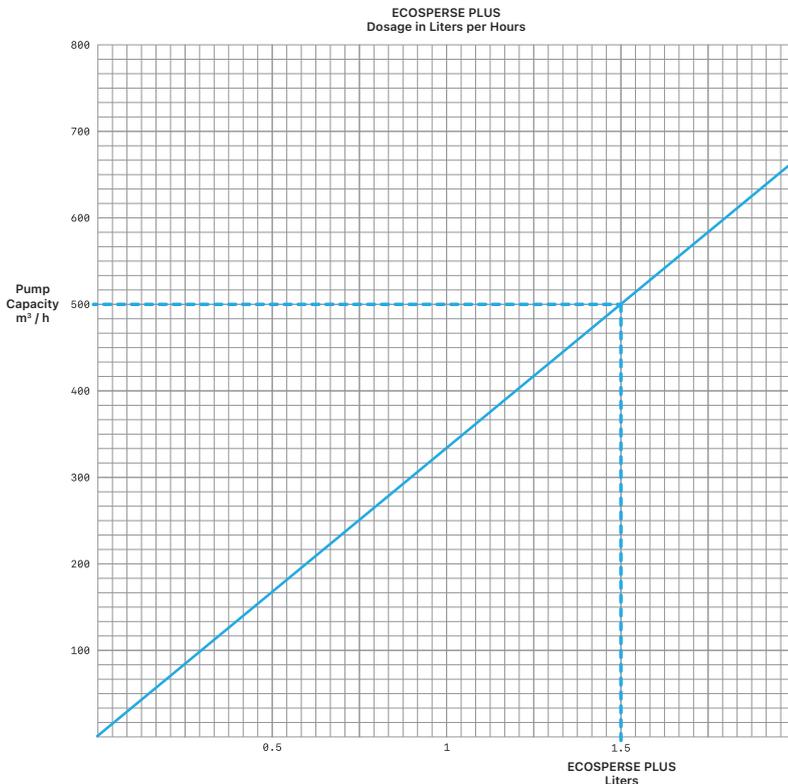
Coastal Vessel

ECOSPERSE PLUS should be metered into the suction boxes or strainers at a rate of 0.3 liters for every 100 tons of sea water flow over a period of **24 hours**.

ECOSPERSE PLUS

Antifoulant and Corrosion Inhibitor for Sea Water Cooling System

(Fig.2)



Safety and Environment (HSE)

Uniservice Unisafe Srl have carefully developed their products to minimize the safety risks and environmental impact of using their products. However, Uniservice advises that, prior to using its products, users should read in detail the accompanying Safety Data Sheet and ensure that its products are applied within the required HSE regulations of the country in which the user operates. Best practice and safety requirements should be followed which will likely include method statements and risk assessments, together with any specific requirements of the user's own company HSE requirements.

data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by Uniservice Unisafe Srl hereunder are given gratis, and Uniservice Unisafe Srl assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk. Product images are for reference purposes only.

Important Notice

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, this information is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you do a test to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs,

Contact

For further information, please contact your local Uniservice Unisafe sales representative or get in touch with us:

Uniservice Unisafe SRL
 Marine Chemicals Division
 Via al S.N.S. della Guardia 58a
 Genoa 16162 Italy
 (+39) 010 711 395
 (+39) 010 713 120
www.uniservicemarine.com