

CWT-PDS-AP-Maxigard-R1

MAXIGARD™ corrosion and/or scale inhibitor

Product Description

MAXIGARD corrosion inhibitor is a nitrite-based, liquid, multi-functional treatment designed to prevent corrosion and mineral scale in recirculating cooling water systems for medium- and high-speed marine diesel engines.

MAXIGARD is colored for ease of visibility. It is suitable for treating chilled water and many other recirculating systems.

MAXIGARD is approved by many engine manufacturers. Listed here are the manufacturers and government agencies that approve or see no objection to the use of MAXIGARD.

ABC Diesel	Jenbacher Werke A.G.
AktiebolagetHedemora Verkstader	Kelvin Diesel Ltd.
Alco Power Inc.	KHD Duetz
APE Allen Ltd.	MAN B&W Diesel
APE-Crossley Ltd.	Mirrless Blackstone
A.S. Bergens	Nohab Diesel
Cooper Bessemer	Norwegian Institute of
Health Department of Trade-U.K.	Paxman Diesels Ltd.
Detroit Diesel	Perkins Engines Ltd.
Diahatsu Diesel Ltd.	Ruston Diesel Ltd.
Electro-Motive Division	SACM Mulhouse
General Motors	S.E.M.T. Pielstick
Fairbanks-Morse Division	Stork Werkspoor
Diesel BV Colt Industries	Transamerica Delaval
General Electric Company	Wartsila NSD
Grand Motori Trieste S.p.A	Waukesha Engine
Division Japan Association of	Dresser Industries
Corrosion Control	Yanmar Diesel Engine

MAXIGARD corrosion inhibitor has received approval from the North Atlantic Treaty Organization and has been assigned NATO number 6850219201144.

Application System Preparation

In order to ensure the maximum benefits from a MAXIGARD corrosion inhibitor program, the system should be inspected for deposits and corrosion. If the system is found to be contaminated, it must be chemically cleaned before the treatment program

begins. Your Solenis representative can provide specific cleaning recommendations.

Sacrificial anodes (magnesium or zinc) in the cooling system should be removed prior to adding MAXIGARD. These materials are not necessary with the complete chemical program in effect and, in fact, may cause undesirable deposits in circulating water systems.

Although MAXIGARD is effective in multi-metal systems, certain aluminum alloys may be difficult to protect because they are highly anodic. The use of MAXIGARD with these systems should be discussed with a Solenis representative prior to starting treatment.

Dosage

The system should be filled with distilled or fresh water and, where freeze protection is necessary, the proper amount of glycol-based antifreeze should be added. Begin circulating the system and add MAXIGARD at an initial dosage of 16 liters per ton of system capacity. Circulate for 30 minutes after addition to insure good distribution and the establishment of a protective film.

MAXIGARD may be used with waters that have hardness contamination, provided the total hardness levels are less than 170 ppm or as otherwise recommended by the engine manufacturer, whichever is less. The chloride level in the cooling system should be limited to 100 ppm or as otherwise recommended by the engine manufacturer, whichever is less.

Benefits

- Protects against variable metal corrosion
- Reduces corrosion due to cavitation
- Maintains heat transfer effectiveness
- Helps prevent overheating caused by sludge and mineral scale deposits Reduces cleaning and maintenance costs
- Stabilizes cooling water pH
- Easy to dose
- Cost effective

Feeding and Control

The proper level of MAXIGARD treatment can be maintained using CWT Titrets1 (P/C #0367012). Tests should be conducted to confirm that a minimum MAXIGARD treatment concentration of 19,000 ppm is present. Testing will also confirm that you have not exceeded the recommended maximum of 36,000 ppm of MAXIGARD treatment. Testing once each week is satisfactory. However, when makeup addition to the system is large or unusual changes are noticed, testing frequency should be increased.

Testing for chloride may be conducted to check makeup water quality. Chloride levels should not exceed 100 ppm or the engine manufacturer's recommendations, whichever is less. Before testing for chloride using the Chloride LMP Test Kit (P/C #0373019), pretreat the sample with Sample Pretreatment (P/C #0374025). Use Total Hardness Titrets (P/C #0378019) for determining hardness level.

Contact your Water Technologies representative for the Cooling Water Treatment Testing control and dosage chart (#CW-CS-1) for more detailed information.

Features

Multi-component inhibitor, Contains a scale modifier, Buffered, Liquid

Packaging

This product is available in a variety of packaging sizes. Your Solenis representative will recommend the appropriate packaging for the application.

Important Information

Typical Properties: Refer to MSDS.

Regulatory Information: Please refer to the MSDS or contact your sales representative for any additional regulatory and environmental information.

Safety: Solenis maintains Material Safety Data Sheets on all of its products. Material Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers.

Our Material Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Solenis products in your facilities.