

PRODUCT DATA

AMERSPERSE® 280 seawater cooling system treatment

Description

AMERSPERSE® 280 seawater cooling system treatment is a highly effective biocide of the organosulfur type which is used to keep the seawater cooling system free of marine fouling. When the system is free of fouling of the microbiological (bacteria and fungi) or the

macrobiological (barnacles and mussels) types, the ability to transfer heat is at the maximum. The use of AMERSPERSE 280 will reduce maintenance and operating costs by keeping the system clean and at design conditions.



**Drew
Amerold®
Marine**

Features

- Highly effective antifoulant
- Utilizes simple low-cost equipment
- Concentrated liquid

ACCEPTED
MAY 24 1989
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 56473-1

Benefits

- Controls marine biological fouling
- Minimizes biological corrosion
- Maintains design heat transfer efficiency
- Reduces maintenance and downtime costs
- Does not require continuous application and monitoring
- No major capital investment in equipment
- No maintenance of sophisticated equipment
- Cost effective—easily applied

Application and Use

• PRECLEANING

It is recommended that the cooling water system to be treated be cleaned prior to beginning an AMERSPERSE 280 fouling prevention program.

The reason for cleaning is that if the cooling system is already fouled, AMERSPERSE 280 will kill the marine growths present. The shells from these growths may then become dislodged and block the heat transfer cooling passages.

• DOSAGE

Begin the AMERSPERSE 280 seawater cooling treatment program by treating the system with 10 ppm of AMERSPERSE 280 for 100 minutes every three (3) days in coastal waters and at least once mid-voyage on deep sea crossings, but at least every seven (7) days. To obtain the 10 ppm level, feed 1.5 liters of AMERSPERSE 280 over the 100 minutes for every 100 tons of water flow rate per

• APPLICATION

AMERSPERSE 280 is a liquid which is completely soluble in seawater. An eductor feed system is recommended because of the ease of application and lack of crew handling. AMERSPERSE 280 also can be dosed by a gravity feed system which employs a diluted solution of the chemical. The best point for injection of the dilute solution of AMERSPERSE 280 is immediately after the external sea chest strainer. This provides total dispersion and mixing of the AMERSPERSE 280 with the seawater. The mixed solution thus will contact all parts of the seawater cooling system. AMERSPERSE 280 should not be fed to a system while seawater is being drawn as make-up for an evaporator or water maker. Either bypass the evaporator or shut it down while the AMERSPERSE 280 is being dosed. The equipment should not be returned to service for at least thirty (30) minutes afterwards which will

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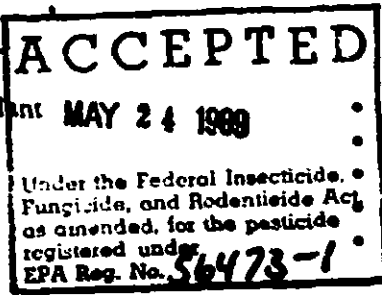
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Typical Physical Properties:

COMPOSITION:	A blend of sodium dimethyldithiocarbamate and Nabam (disodium ethylene bisdithiocarbamate) plus inert ingredients.
ACTIVE INGREDIENTS:	30.0% (minimum)
APPEARANCE:	A clear yellow-green liquid
ODOR:	Hydrogen sulfide odor
FLASH POINT:	None
pH:	11.5 ± 1.0 (when drummed)
SPECIFIC GRAVITY:	1.15 ± 0.02 (at 25°C)
WATER SOLUBILITY:	Complete in all proportions

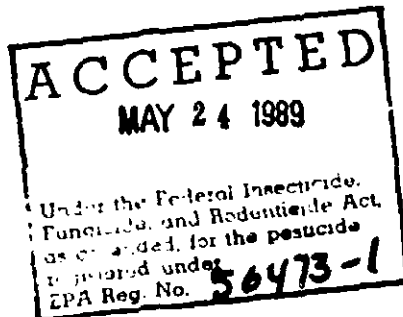
IMPORTANT INFORMATION: Drew maintains Material Safety Data Sheets (MSDSs) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products.

We recommend that you obtain our material safety data sheet which should be read and understood by all supervisory personnel and employees before using this product in your facilities.

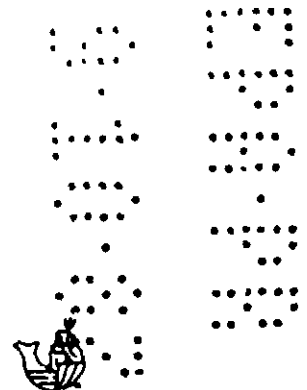
Storage and Packaging

Avoid freezing or excessive heat.

Available in 25 liter pails and 60 liter drums.



All statements, information and data presented herein are believed to be accurate and reliable but are not to be taken as a guarantee, express warranty or implied warranty of merchantability or fitness for a particular purpose, or representation, express or implied, for which seller assumes legal responsibility and they are offered solely for your consideration, investigation and verification. Statements or suggestions concerning possible use of this product are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe on any patent.



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