



MUD CONDITIONER™

DESCRIPTION

MUD CONDITIONER is a concentrated liquid solution formulated with special surfactants and a corrosion inhibitor in order to fight formations and disperse accumulations of mud and silt in ballast water tanks. Actually, **MUD CONDITIONER** reacts with mud and silt to form large non-adhering particles, which are dissolved in the tank and then discharged with the ballast water during de-ballasting.

ADVANTAGES AND CHARACTERISTICS

- ◆ Ideal for the removal, dispersion and prevention of heavy mud, loose scale, rust deposits, silt accumulates and other sediments in ballast water tanks.
 - ◆ Reacts with mud and silt molecules to form non-adhering particles, which are easily discharged during de-ballasting.
 - ◆ Terminates microorganisms harvested in the mud and silt sludge.
 - ◆ Effectively cleans the ballast water tank lines and pumping equipment.
 - ◆ Prevents extensive erosion from the ballast tank surfaces and cavities.
 - ◆ Acts quickly and efficiently and is water-soluble.
 - ◆ Non-flammable and non-toxic.
 - ◆ Can safely be applied to all metals except those galvanized and those made of tin, zinc and aluminum.
 - ◆ Cost effective, easy to apply and use.
- ▶ **MUD CONDITIONER** is not harmful to the marine environment as per MARPOL MEPC 63 Annex V Amendment [MEPC. 71/17/Add.1 Annex 21, Resolution MEPC 295 (71)].

PHYSICAL PROPERTIES

MUD CONDITIONER is a concentrated aqueous solution consisting of special surface-active agents and a specific corrosion inhibitor.

Appearance/Color	: Clear, red liquid
Specific gravity	: 1.15 - 1.17 gr/cm ³ at 20°C
Solubility	: Complete
pH value	: 1.0 - 2.0
Odor	: Pungent

PACKAGING

Order Number	: 833019 (30 ltrs)
Container	: Plastic jerrican

APPLICATION AND USE

A. Dosing Procedure

Commonly, a quantity of 25–50 litres of **MUD CONDITIONER** per 1,000 tons of ballast water content is used every time the tanks are ballasted.

However, when we deal with heavy mud and silt accumulations, 150–250 litres per 1,000 tons of ballast water is recommended for fast and complete cleaning.

B. Cleaning Procedure

In the case where regular treatment is desired, the prescribed quantity of **MUD CONDITIONER** is added to ballast water, while ballasting, in order to make sure of the homogeneity of the formed mixture. Here, the treatment must be repeated every time the tanks are ballasted.

In the case of heavy mud and silt accumulation, the quantity of **MUD CONDITIONER** prescribed is poured in the de-ballasted tanks, which now are filled only with 20–30cm of their height capacity with water, being enough to ensure mud and silt removal by rapid agitation. Then, the mixture must be left to act for a period of 3–5 hours followed by complete removal.

- ▶ **Note** that a high-pressure water supply may be used to assist removal and further penetration into the mud and silt deposits. Also, the treatment may have to be repeated depending on the degree of contamination and accumulation we are dealing with.



! SAFETY AND HANDLING

HANDLING	Handle with care. Store in a dry, cool and well ventilated environment.
SAFETY	IMMEDIATE ACTIONS
Eye Contact	Avoid Eye contact. Otherwise, flush with plenty of water for a few minutes. Seek medical attention.
Skin Contact	Avoid Skin contact. Otherwise, wash contaminated area thoroughly with water. Seek medical attention.
Inhalation	Avoid inhalation of vapors. Otherwise, seek fresh air source at once.
If Swallowed	Avoid ingestion. Otherwise, consume a considerable quantity of water. Do not induce vomiting. Seek medical attention.
GENERAL INSTRUCTIONS	Avoid spillage, splashing and mishandling. Wear suitable protective clothing, gloves and eye/face protection before using the product.

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

For detailed information on safety and health, please refer to Material Safety Data Sheet and/or Product Label.

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