



FUELBREAK™

DESCRIPTION

FUELBREAK is a solution of specific solvents combined with appropriate emulsion-break compounds, which can be efficiently used for separating the quantities of water in marine fuels by breaking the water in oil emulsions.

Usually all Heavy Fuel Oils (HFO) when contaminated with water form stable water in oil emulsions (W/O emulsions). The formation of these emulsions is due to asphaltenes, resins and other heavy hydrocarbon molecules of HFO acting as 'natural emulsifiers'. These emulsions are very stable and are difficult to be broken without the application of special formulated products which are called de-emulsifiers.

In marine fuel handling systems the presence of Water in Oil emulsion could lead to the formation of sludge that can be deposited and encrusted inside the metallic tubes. These conditions can block the filters and prevent the separation of metallic elements/ash which the HFO contains. They can also boost the biological growth and increase microbes with result of fuel degradation and decrease the combustion efficiency.

When HFO is contaminated with seawater it can cause serious damage on metallic parts during handling. This will lead to the formation of corrosive substances at the exhaust.

In any case the quantity of water must be removed before burning.

ADVANTAGES AND CHARACTERISTICS

- ◆ Breaks Water in Oil emulsion and separates most of the water in settling tank and in the centrifuge.
- ◆ Improves the efficiency of separator.
- ◆ Prevents formation of sludge in the tubes and the blockage of filters.
- ◆ Facilitates the removal of metallic elements.
- ◆ Improves fuel flow by reducing viscosity without affecting other physical characteristics.
- ◆ It is not toxic, not corrosive and it does not contain chlorinated solvents.
- ◆ Suggested for use especially with marine fuel types IFO 180, IFO 380 when having high water and ash/metallic content.

PHYSICAL PROPERTIES

Appearance	: Clear Liquid
Odor	: Aromatic
Specific Gravity	: 0.88 - 0.92 gr/cm ³ at 20°C
Cloud Point	: < -15°C
Pour Point	: < -30°C
Flash Point	: 41°C

PACKAGING

Order Number	: 562507 (25 ltrs)
Container	: Steel drum

APPLICATION AND USE

The product should be applied inside the fuel storage tank or by a dosimetric pump at the initial stage of fuel handling, so as to ensure good dispersion of the active ingredients. The separation of water will be succeeded both inside the settling tank and in the fuel centrifuges at a temperature 60–70°C. The separation will be slower in the settling tank, where the water will be accumulated at the bottom of the tank and must be collected and separation will be faster when the fuel centrifuges.

The dosage should be according the following table, taking into consideration the volume percentage (%) of water as recorded in the fuel analysis.

Liters of product/liters of HFO	1/5000	1/2500	1/1250	1/500
Volume percentage (%) of water	0.5-1.0%	1.0-2.0%	2.0-3.0%	3.0-5.0%

If no fuel chemical analysis is available, then **MARICHEM WATER IN OIL TEST KIT** (Order Number: 720101) can be used for measuring the volume percentage (%) of water in fuel oil.



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! 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. Seek medical attention.
If Swallowed	Avoid ingestion. Otherwise, consume a considerable quantity of water. Seek medical attention.
GENERAL INSTRUCTIONS	Avoid spillage, splashing and mishandling. Precautionary measures for body protection are strongly recommended before use.

 **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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