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FUELFLOW PPR TM

DESCRIPTION :

FUELFLOW PPR (Pour Point Reducer) is a highly concentrated fuel oil additive specifically designed to

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reduce/depress the Pour Point (the temperature at which a fuel becomes solid) and prevent the formation

of wax structures. In the case of marine distillate fuels, there seems a notable move toward fuels with higher wax contents, and this leads to worsening cold temperature operability.

As more ships sailing through polar waters and as new hybrid and ultra low sulfur distillate fuels

are becoming available in the market, there is an increased risk of wax formation which can make fuel

unpumpable.

As the temperature in the fuel decreases, the molecules of paraffin tend to come together, forming large

structures which will degrade the flow characteristics of the fuel.

Modification of the crystallization of the wax is necessary to maintain the fuel at a liquid condition and avoid

solidification in extreme conditions.

FUELFLOW PPR is suitable for all distillate fuels and offers no paraffin crystallization

at very low temperatures/arctic waters. When using FUELFLOW PPR the fuel remains liquid and easy to handle/pump.

FUELFLOW PPR has been tested by independent lab, and has demonstrated to reduce pour point and cold

filter plugging point (CFPP), by an average of 21°C and 11°C respectively.

ADVANTAGES AND CHARACTERISTICS :

- Pour point reducer/depressant.
- Prevents the formation of wax structures.
- No paraffin crystallization at very low temperatures/arctic waters
- Cost-effective due to the low dosages needed during operations.
- Easy to handle and use, as it is available in 25L pails.

PHYSICAL PROPERTIES :

FUELFLOW PPR is an organic-based pour point reducer/depressant that prevents the formation of wax structures and is suitable for all distillate fuels.

Appearance/Color : Colorless liquid

Specific gravity : 0.88 - 0.90 gr/cm3 at 20 °C Flash Point : 64 °C

Odor : Aromatic Solvent Odor

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APPLICATION AND USE:

A. Dosing Procedure

The fuel must be above its cloud point prior to treating with FUELFLOW PPR. 6 Cloud point (CP) is the temperature below which wax in fuel form a cloudy appearance. 6 Pour Point (PP) is the lowest temperature at which fuel continues to flow without losing its flow characteristics. 6 Cold filter plugging point (CFPP) is the lowest temperature, expressed in degrees Celsius (°C), at which a given volume of fuel still passes through a standardized filtration device in a specified time. 6 Cloud Point > CFPP Point > Pour Point 6 CFPP is generally around 3°C below the Cloud Point. The recommended dosage of FUELFLOW PPR is 1 liter to 1 tonne of fuel oil. In case the results are not the desired ones, then dosage can be increased to 1 liter of FUELFLOW PPR for 0.5 tonnes of fuel oil.

B. Feeding Procedure

FUELFLOW PPR should be dosed directly into the bunker tanks prior to filling.

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	Do not breathe gas/vapors. Otherwise, seek fresh air source at once. Seek medical attention. In case of insufficient ventilation, wear suitable respiratory equipment.
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. 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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