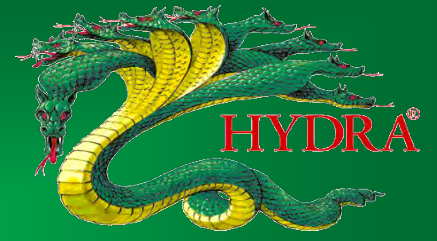


HYDRA



Dehazer & Demulsifier Fuel Additive

Removes Fuel Haziness, Water from Diesel and MGO



HYDRA®

Features & Advantages

- ◆ Removes fuel haziness.
- ◆ Removes and absorbs water in fuel.
- ◆ Leaves fuel clean and bright
- ◆ Helps protect against corrosion.
- ◆ Reduced need for filtering and reprocessing.
- ◆ Reduced tank settling period reduces noise from engine.
- ◆ Prevention of hazing problems across the supply chain.
- ◆ Will not harm catalytic convertors.
- ◆ Helps restore lost power.
- ◆ Dilution rate: 1:10,000 - 1:2,000 (100-500ppm).

The Problem



Does your engine have a lack of power and is hard to start?

This is often a sign that sufficient fuel is not getting through to the engine which is caused by a partial blockage of the fuel system.

The most common place for this blockage to occur is in the fuel filter bowl. In this bowl is a disposable paper cartridge which filters down to 10 micron. This is designed to remove any dirt particles.

Some filters also have a water trap designed to trap and water separated from the diesel fuel. These traps need to be drained at regular intervals.

The easiest way to check your fuel quality is to take a sample from the vehicles fuel tank into a clear glass. Hold this fuel sample up to the light and check for clarity.

It should be clear and bright and free from any cloudiness or haze. This means that your fuel is free from water contamination and simply changing your fuel filter should solve the problem.

If your fuel is cloudy or hazy then it means that it has suspended water in it, this is normally a cold season problem.

When diesel fuel cools down overnight or in storage and water in the fuel would normally separate where it would be caught in the fuel filter bowl for removal. If the water droplets do not drop out then the fuel appears hazy.

This normally occurs overnight and on cold mornings, this haziness will disappear as the fuel warms up. Generally seen as a greasy emulsion on blocked filters which disappears when the filter is dried.

Normally, hydrocarbons and water separate rapidly and cleanly. However, if the fuel contains polar compounds that behave like surfactants and if free water is present, the fuel and water can form an emulsion.

Any operation which subjects the mixture to high shear forces (such as pumping the fuel) can stabilise the emulsion.

The inclusion of surface active compounds in the fuel can lead to the formation of emulsions, often described as haziness of the fuel.



Description



To prevent this problem occurring, simply add Hydra Dehazer & Demulsifier Fuel Additive which results in water separation.

Hydra Dehazer & Demulsifier Fuel Additive is a polyimine derivative. It is a demulsifier intermediate which aids the destabilisation of water-in-oil emulsions.



It is Hydra Dehazer & Demulsifier Fuel Additive excellent demulsifying properties which make it a superior dehazer for use as a component in dewatering formulations.

The Hydra Dehazer & Demulsifier lowers the interfacial tension of the emulsion allowing coalescence of the water droplets in order to accelerate the settling of water, resulting in a clean bright fuel.

How To Use

USAGE

1:10,000-1:2,000 (100-500ppm) depending on amount of water in fuel sample. As this product is very viscous, if necessary pre-dilute with a small quantity of diesel to lower viscosity.

Hydra Dehazer & Demulsifier Fuel Additive has a high speed of action confirming it's suitability for separation vessels with shorter residence times.



Due to Hydra Dehazer & Demulsifier Fuel Additive being effective at low inclusion levels, there is a beneficial reduction in the cost of the final demulsifier formulation.



All our products are manufactured to the highest International Specifications at our UK plant.

This plant is accredited to ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 ensuring that EN 590:2009 fuel quality standard is always adhered to.

Laboratory Facilities

Hydra International Ltd.'s Research & Development Laboratories are a hub of activity where new products are developed and formulated. We have working relationships with our raw material suppliers, many of these suppliers are major world-wide chemical manufacturers with their own development laboratories.

As a company we are well known in the chemical industry for being receptive to cutting edge new chemicals which can be incorporated into our products to achieve performance advantages. An important part of the International Standards that we hold is that of constant improvement. We show that we have achieved this at every independent audit.



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