



FuelClear M68

FuelClear M68 is a range of products for consumers to identify & treat the most common form of fuel contamination; the 'Diesel Bug'. **FuelClear M68 Fuel Biocide** is a high performance fuel preservative for non-industrial applications such as marine & home heating. **FuelClear M68 Test Kits** are a simple, accurate and cost-effective method for continuously monitoring the presence of bacteria & fungi in hydrocarbon fuels.

FuelClear M68 Fuel Biocide

FuelClear M68 Fuel Biocide is a powerful microbiocide that rapidly cures & prevents bacterial & fungal contamination ('The Diesel Bug') in all middle distillate fuels. **FuelClear M68 Fuel Biocide** provides complete fuel system protection, preventing filter blinding, tank corrosion and offering long term fuel protection against the growth of harmful microbes.

FuelClear M68 Fuel Biocide uses a powerful active chemistry called 'CMIT/MIT' that rapidly neutralises harmful microbial growth. CMIT/MIT has been used for over 20 years as a highly effective anti-microbial ingredient in fuel biocides, used widely in global shipping, oil & gas and aviation sectors for its safety, efficacy & speed. M68 uses CMIT/MIT to protect all 4 major fuel system components:



FuelClear M68 Fuel Biocide cures & prevents bacterial & fungal contamination ('The Diesel Bug') in Diesel, Gas Oil, Petrol, Heating Oil, Biodiesel, Fuel Emulsions. Marine, Rail, Agriculture, Automotive, Home Heating, Power & any other professional fuel-using application. **FuelClear M68 Fuel Biocide** is available in 250ml, 1l or 5l bottles. 1l is sufficient to treat 3,000 litres of contaminated fuel and will restore fuel quality in 12-24 hours. Used as a preventative measure, a 1l bottle will treat 6,000 litres of clean fuel and provide up to 3 months protection.

What is the 'Diesel Bug'?

The 'Diesel Bug' is the growth of bacterial & fungal slimes in your fuel. This contamination is found in almost every fuel system, and particularly where fuel is left for long periods undisturbed. The Diesel Bug manifests itself as:

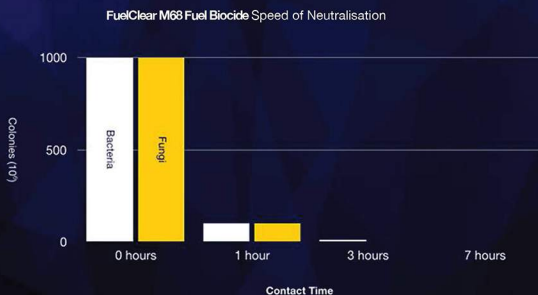
1. Discoloured fuel often with an 'eggy', foul smell.
2. Black or brown sludges on fuel tank bottoms, fuel filters and fuel pumps.
3. Slimes and sludges on fuel tank walls.
4. Red or brown metal corrosion in fuel tank bottoms or walls.



Performance of FuelClear M68 Fuel Biocide

FuelClear M68 Fuel Biocide is highly effective at very low use levels against microbial species (bacteria, fungi, yeasts) commonly encountered in fuel systems. **FuelClear M68 Fuel Biocide** causes immediate inhibition of growth on coming into contact with a microorganism and growth inhibition rapidly becomes irreversible resulting in cell death.

FuelClear M68 Fuel Biocide conforms to all E.U. Biocide Products Directive legislation. The active chemistry CMIT/MIT has been notified under B.P.D. rules. Product is not for aviation use - for aviation use, contact Fuelcare & ask for **Kathon™** FP 1.5. Use biocides safely. Always read the label and product information before use. Professional Users Only.



The time to achieve eradication varies according to the extent of the contamination and the type of microorganism present. Typically, as the graph indicates, within 24 hours of treatment the fuel will again be fit for use.

FuelClear M68 Fuel Test Kits

FuelClear M68 Test Kits are an accurate and cost-effective test kit for continuously monitoring the presence of bacteria & fungi (the 'Diesel Bug') in your fuel. A pack contains 2 or 10 'dipslide' kits: 1 test can be performed prior to treatment with **FuelClear M68 Fuel Biocide**, and 1 test 24 hours after treatment. Alternatively, use as an ongoing cost-effective test method.

The dipslides can be used to detect bacteria (the yellow side of the test kit) or fungi (the pink side) in either water bottoms (i.e. the layer of water at the base of the fuel tank) or the fuel itself.



FuelClear M68 Fuel Biocide Technical Data

10ml of **FuelClear M68 Fuel Biocide** treats 60 litres of clean fuel (1:6000) or 30 litres of spoilt fuel (1:3000). Fuel will be ready to use after 6 hours, however, a minimum of 12 hours is recommended.

Because CMIT/MIT biocides use a chemical mechanism of bacterial neutralisation, as opposed to an organic one, contaminant cells are eradicated in whole as opposed to being disabled and then able to adapt. For this reason bacterial resistance is highly unlikely.

Fuelclear M68 Fuel Test Kits Technical Data



A pack contains 2 or 10 dipslides, each dipslide contains one side for bacterial growth and one for fungal growth. Following 48 hours incubation, review each side of the dipslide for microbial colonies. Each colony represents an area upon which microbes have developed.