

WASP[®] BIOKEM SP15

Fuel micro-biocide

For treatment of *Cladosporium Resinae* and *Pseudomonas aeruginosa* (fuel bug)

Bacterial infections in fuel lead Biomass sludge to form, causing filters to clog and tank pitting. The knock on impact is systems stalling and if left untreated, the result is often permanent damage to fuel systems, as well as fuel being unusable. Replacing systems and fuel is then obviously a costly event which could have been avoided.

WASP[®] BIOKEM SP15 is a highly effective agent to kill live bacteria in fuel tanks.

It can also be used as a wash to pre-treat surfaces.



What is Biokem?

WASP[®] BIOKEM SP15 is a concentrated effective biocide/fungicide designed for all fuel oils. Rapidly destroys micro-organisms and provides long term protection against further infection.

- Effective at high dilution
- Nitrite free
- Universal application
- Good material compatibility
- Long Lasting
- Supports anti-corrosive properties
- Low toxicity
- Boosts pH level
- Extremely versatile and economic in use

How do I know I have a bacterial infection in my fuel?



You will probably first notice you have a bacterial infection in your fuel when you see foreign matter floating on top or mixed in with the fuel.

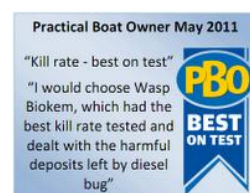
Your boat or equipment using the fuel may not be running efficiently.

There are hundreds of various forms of bacterial infection which can live and multiply in fuel and can be all different forms, sizes, shapes and colours, from an earthy brown to luminous green.

Does WASP[®] BIOKEM SP15 work?

The effectiveness of WASP[®] BIOKEM SP15 has been proven over a number of years and it has extensive approvals endorsing its use in a wide range of fuel types. It combines exceptional activity with broad spectrum performance, consequently it is effective at very low use levels against all commonly occurring fuel contaminants (bacteria, fungi and yeast). WASP[®] BIOKEM SP15 is a high performance antimicrobial agent developed specifically to combat problems of microbial contamination and spoilage in hydrocarbon fuels.

In 2011 it was entered into two magazine group tests, the results speak for themselves.



Can I use WASP® BIOKEM SP15 to prevent a bacterial infection?

Yes, and we suggest doing so to avoid the costly expense of finding out about the infection when it is too late to be treated resulting in the need to replace storage equipment and your stored fuel.

Prevention is better than cure!

Do I need to remove the bacteria already there?

WASP® BIOKEM SP15 will kill live bacteria but to remove it completely, you will need to filter out the bacteria which is already in your fuel. It is worth noting other similar products claim to remove existing infections. While the majority of similar products may break down the infection (including BIOKEM), and prevent further infection, none will completely remove the matter already there. If you intend to use BIOKEM for a boat, it may already have a filter which can be run to clean out the matter. If you would like more information on a filter system, please contact us on 01923 276 007.



What quantity options are available?

The product is supplied in bottles of

- 5kg (5 lit approx) bottles
- 250ml bottles
- 50ml bottles

What is the recommended dosage?

WASP® BIOKEM SP15 should be dosed as follows (based on the 250ml bottle size):

Contamination	Dose
Preventive	A 250ml bottle is enough to treat 2500 litres of fuel (10000:1)
Moderate contamination	A 250ml bottle is enough to treat 1250 litres of fuel (5000:1)
Heavy contamination	A 250ml bottle is enough to treat 750 litres of fuel (3000:1)

Treat as per table above and re-treat periodically at 5000:1 to 10000:1 to control re-infection. Best results are obtained if the system can be re-circulated to fully disperse the Biocide.

When dosing with WASP® BIOKEM SP15, ALWAYS mix the required dose with a greater quantity of fuel BEFORE adding to the fuel tank. This ensures a quick and efficient dilution with the infected fuel.

For bio-diesel we recommend double-dosing, so a 250ml bottle is enough to treat 375 litres of fuel with heavy contamination (1500:1).

