

## TECHNICAL DATA SHEET

### RoxDiesel® Biocide (4300)

**Code 8275**

#### DESCRIPTION

RoxDiesel® Biocide is a potent biocide for killing and for preventing regrowth of most types of organisms which grow in fuels. Similarly, RoxDiesel® Biocide acts as a fuel tank corrosion inhibitor and fuel lubricant.

RoxDiesel® Biocide is effective against most types of organisms found in fuel; it is particularly effective against Cladosporium resinae (a hydrocarbon utilizing fungus); as well as against bacteria, yeasts and other fungi.

Being totally organic, RoxDiesel® Biocide leaves no ash on combustion.



#### Causes of Fuel Contamination

Water commonly enters fuel storage tanks through faults in plumbing, or condensation.

Bacterial or fungal growth in diesel fuel cannot occur unless water is present. Micro-organisms such as Cladisporium resinae propagate in water at the fuel-water interface and use the fuel as a food source.

Escherichia Coli in severe cases of contamination, produces high levels of waste product, spores and dead cells which can form sludge which in turn causes filter blockage and corrosive acidic deposits.

Fuel tank maintenance requires removal of as much water as possible and regular treatment using a biocide such as RoxDiesel® Biocide. Such a maintenance programme will ensure fuel tank corrosion is minimised and will provide savings due to possible downtime of machinery, cost of filter replacement and prevention of damage to engine components.

RoxDiesel® Biocide at the recommended dosage will effectively kill and allow no growth of the following:

Bacteria: Pseudomonas Aeruginosa  
Aerobacter aerogenes  
Salmonella typhii  
Staphylococcus aureaus  
Proteus vulgaris  
Streptococcus faecalis  
Desulfovibrio aestaurii

Fungi & Mould: Fusarium moniliforma  
Trichophyton metagrphytes  
Cephalosporium species  
Cladosporium herbarum  
Cladosporium resinae  
Aspergillus niger  
Penicillium velutinum  
Yeast (Candida albicans)

Sulphate reducing Bacteria: Desulfovibrio desulfuricans

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### SPECIFICATION

Character : hydrocarbon petroleum solvent  
Appearance : clear amber liquid  
Specific Gravity : 0.832  
Packing : 4 litre, 20 litre & 205 litre steel drum  
Shelf Life : 24 months if stored in closed drum

### DOSAGE RATIO

200ml of RoxDiesel® Biocide treats 1,000 litres of fuel, or 1 litre of RoxDiesel® Biocide treats 5,000 litres of fuel.

### METHOD OF USE

Add required amount to fuel tank prior to filling up tank; addition of new fuel will mix and agitate RoxDiesel® Biocide through the fuel to give a homogenous dispersion.

Dose the fuel every time you put fresh fuel into the tank otherwise bacteria growth may start again.

NOTE: WATCH FILTERS - Once you have started treating a contaminated fuel system check your filters regularly. Once the RoxDiesel® Biocide kills the organisms, they will dislodge from the sides and bottom of the fuel tank and from pipes and mix with the fuel, passing to the filter. Clean out filters regularly.

### SAFETY PRECAUTIONS

Avoid contact with skin and eyes. If poisoning occurs, contact a Doctor or Poisons Information Centre.

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