

## TECHNICAL DATA SHEET

### ROX<sup>®</sup> 4300 *Diesel Fuel Biocide*

**Code 8275**

#### DESCRIPTION

ROX<sup>®</sup> 4300 is a potent biocide for killing and for preventing regrowth of most types of organisms which grow in fuels. Similarly, ROX<sup>®</sup> 4300 acts as a fuel tank corrosion inhibitor and fuel lubricant.

ROX<sup>®</sup> 4300 is effective against most types of organisms found in fuel; it is particularly effective against *Cladospodium resinae* (a hydrocarbon utilizing fungus); as well as against bacteria, yeasts and other fungi.

Being totally organic, ROX<sup>®</sup> 4300 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 *Cladospodium 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 ROX<sup>®</sup> 4300. 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.

ROX<sup>®</sup> 4300 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*  
                                      *Cladospodium herbarum*  
                                      *Cladospodium resinae*  
                                      *Aspergillus niger*  
                                      *Penicillum 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 ROX<sup>®</sup> 4300 treats 1,000 litres of fuel, or 1 litre of ROX<sup>®</sup> 4300 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 ROX<sup>®</sup> 4300 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 ROX<sup>®</sup> 4300 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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