



# PRODUCT DATA SHEET

## BUGRID

### DIESEL FUEL BIOCIDES

#### DESCRIPTION

**Hi-Tec Bugrid** is a potent biocide for killing and for preventing re-growth of most types of organisms which grow in fuels. Similarly, **Hi-Tec Bugrid** acts as a fuel tank corrosion inhibitor and fuel lubricant.

The biocide in **Hi-Tec Bugrid** is reputed to be the most effective biocide available. Being totally organic, **Hi-Tec Bugrid** leaves no ash on combustion.

**Hi-Tec Bugrid** is effective against most types of organisms found in fuel; it is particularly effective against *Cladosporium resinae*; as well as against bacteria, yeasts and fungi.

#### 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 *Cladisorium 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 products, spores and dead cells. These can form a sludge and cause filter blockage and also produce corrosive acidic deposits.

Fuel tank maintenance requires removal of as much water as possible and regular treatment using a biocide such as **Hi-Tec Bugrid**.

Such a maintenance program will ensure fuel tank corrosion is minimized and will provide savings due to possible downtime of machinery, cost of filter replacement and prevention of damage to engine components.

**Hi-Tec Bugrid** at the recommended dosage will effectively kill and allow no growth of the following:

#### Bacteria:

- *Pseudomonas Aeruginosa*
- *Escherichia Coli*
- *Aerobacter aerogenes*
- *Salmonella typhii*
- *Staphylococcus aureaus*
- *Proteus vulgaris*
- *Streptococcus faecalis*
- *Desulfovibrio aestaurii*



Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

5 Tarlington Place Smithfield NSW 2164

Correspondence: P.O Box 322 Castle Hill NSW 1765

Ph: 1300 796 009 | Fax: (02) 9604 1611 | Email: hitecoils@hi-tecoils.com.au

[www.hi-tecoils.com.au](http://www.hi-tecoils.com.au)

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### Fungi & Mould:

- Fusarium moniliforma
- Trichophyton metagrphytes
- Cephalosporium species
- Cladosporium herbarum
- Cladosporium resinae
- Aspergillus niger
- Penicillium velutinum
- Yeast (Candida albicans)

### Sulfate Reducing Bacteria:

- Desulfovibrio desulfuricans

### 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

200 mls of **Hi-Tec Bugrid** treats 1,000 litres of fuel, or 1 litre of **Hi-Tec Bugrid** 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 **Hi-Tec Bugrid** 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 **Hi-Tec Bugrid** 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. Refer to MSDS for more details.

"Hi-Tec Oil Traders Pty Ltd (Hi-Tec Oils) has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at [www.hi-tecoils.com.au](http://www.hi-tecoils.com.au). Hi-Tec Oils takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner. Our product warranty and product quality statement can be viewed at [www.hi-tecoils.com.au](http://www.hi-tecoils.com.au)"

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