



# PRODUCT DATA SHEET

## BUGRID

### PRODUCT DESCRIPTION

**Bugrid** is a potent biocide for killing and for preventing re-growth of most types of organisms which grow in fuels. Similarly, **Bugrid** acts as a fuel tank corrosion inhibitor and fuel lubricant. The biocide in **Bugrid** is reputed to be the most effective biocide available. Being totally organic, **Bugrid** leaves no ash on combustion.

**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 **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.

**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

#### **Fungi & Mould:**

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

#### **Sulfate Reducing Bacteria:**

- Desulfovibrio desulfuricans



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## TYPICAL PROPERTIES

Property	Results
Appearance	Clear, brown liquid.
Specific Gravity	0.82
Flash Point, °C	> 61

## TRANSPORT AND HANDLING

UN No.	3082
Dangerous Goods Class	9
Hazchem Code	•3Z
Packaging Group	III

Refer to the Safety Data Sheet for safety instructions prior to handling.

## SHELF LIFE

24 months if stored in closed drum

## DOSAGE RATIO

200 mL of **Bugrid** treats 1,000 litres of fuel, or 1 litre of **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 **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 **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.**

**Available in:** Bulk, 200 Litres, 20 Litres and 4 Litres

"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)"

**Item code:** HI6-3060

**Effective:** March 2020

MR023040/1



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