

## MATERIAL SAFETY DATA SHEET

### *Diesel Fuel Bug Biocide*

<b>SECTION 1</b>	<b>COMPANY AND PRODUCT INFORMATION</b>
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<b>SECTION 1</b>	<b>PRODUCT INFORMATION</b>
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**PRODUCT:**

**Product Name:** DIESEL FUEL BUG BIOCID

**Product Description:** ORGANIC ASHLESS FUEL BIOCID

**Product Codes:** DIESEL FUEL BUG BIOCID

50044 – 1LT ,50068 – 5LT, 82050 – 20LT

**Intended Use:** FUEL BIOCID

<b>SECTION 2</b>	<b>HAZARDOUS IDENTIFICATION</b>
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**HAZARD CLASSIFICATION:** HAZARDOUS SUBSTANCE: NON-DANGEROUS GOODS. Classified in accordance with Approved Criteria for Classifying Hazardous Substances NOHSC and according to Australian Dangerous Goods Code.

**POISON SCHEDULE:** S5

**RISKS:** R65 – Harmful – May cause Lung damage if swallowed.

**HEALTH HAZARDS:** None anticipated if used as directed. Operators should wear EYE PROTECTION or FACE SHIELD. HAND /SKIN CONTACT should be avoided by wearing impervious neoprene or PVC Gloves. Inspect and replace worn or damaged Gloves.

**ENVIRONMENTAL HAZARDS:** Data not available. Refer also Section 5 and 6 for spills or accidental release.

<b>SECTION 3</b>	<b>COMPOSITION/ INFORMATION ON INGREDIENTS</b>
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**MIXTURE**

CAS No	% (Weight)	Name
Not available	>60	hydrocarbon
Not available	<10	emulsifier
Not available	<10	performance additive

## SECTION 4

## FIRST AID MEASURES

### SKIN CONTACT

If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water and soap (if available). If skin irritation occurs, seek medical attention as soon as possible.

### EYE CONTACT

If eye contact occurs: Immediately irrigate with large quantities of fresh running water. Ensure complete irrigation of the eye by keeping the eye lids apart and moving eye ball around while irrigating. Seek medical attention immediately. We recommend that contact lenses be removed only by a skilled person.

### INGESTION

If product is swallowed, do NOT induce vomiting. If vomiting occurs lean person forward or lay them on their side to maintain open airways and prevent choking. Never give liquid to a person showing signs of being sleepy or with reduced awareness (becoming unconscious). If patient is alert, give them water to rinse out the mouth. Provide liquid slowly and as much as can be comfortably managed. Seek medical attention

### INHALATION

If fumes or combustion products are inhaled remove from the contaminated area. Lay patient down, keep them warm and rested. Prosthesis, such as false teeth, should be removed where possible to avoid blocking airways before initialising first aid. Apply artificial respiration if not breathing. Perform CPR if necessary. Seek medical attention as required.

### INDICATIONS OF SPECIAL TREATMENT OR URGENT MEDICAL ATTENTION REQUIRED

For acute or short term, repeated exposures to petroleum distillates or related hydrocarbons:

- Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with adequate tidal volumes or poor arterial blood gases (pO<sub>2</sub> 50 mm Hg) should be incubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiography evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obvious symptomatic patients. The lungs excrete inhaled solvents, so hyperventilation improves clearance.
- A chest X-Ray should be taken immediately after stabilization of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (Adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitization to catecholamines. Inhaled cardio selective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline second choice.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients.

## **SECTION 5**

## **FIRE FIGHTING MEASURES**

### **EXTINGUISHING MEDIA**

Carbon Dioxide  
Water spray or fog  
Dry chemical powder  
BCF (where regulations permit)

### **SPECIAL HAZARDS ARISING FROM THE SUBSTRATE OF MIXTURE**

Fire Incompatibility:

Avoid contamination with strong oxidizing agents as ignition may result.

### **FIRE FIGHTING**

Alert Fire Department advising of the location and type of fire. Wear breathing apparatus plus protective gloves. Prevent spillage from entering drains and water courses. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If it is safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.

### **FIRE/EXPLOSION HAZARD**

Combustible liquid  
Slight fire hazard when exposed to heat or flame  
Heating may cause expansion or decomposition leading to violent rupture of containers.  
On combustion may omit toxic fumes of carbon monoxide (CO)  
May omit acrid smoke  
Mists containing combustible materials may be explosive

### **AUTOIGNITION TEMPERATURE**

Data not available

## **SECTION 6**

## **ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment & emergency procedures

### **MINOR SPILLS**

Remove all sources of ignition  
Clean up spills immediately  
Avoid contact with skin and eyes, avoid inhalation of vapors  
Control personal contact with the substance by utilizing protective clothing and equipment  
Contain and absorb the spill with sand, earth, inert material or vermiculite  
Wipe up spill  
Place in a suitable container for waste disposal; ensure that it is well labeled

### **MAJOR SPILLS**

Clear personnel from the area and move upwind of fumes  
Alert Fire Brigade advising of location and type of hazard  
Wear breathing apparatus and protective gloves  
Prevent spillage from entering drains and water courses  
Avoid smoking, naked flame or any ignition sources near spillage  
Increase ventilation as much as possible  
If it is safe to do, stop the leak

Contain and absorb the spill with sand, earth inert material or vermiculite  
Collect spillage where possible into suitable containers for waste disposal; ensure that it is well labeled.  
Wash area being sure to prevent runoff entering drains  
If contamination of drains or waterways occurs advise emergency services

<b>SECTION 7</b>	<b>HANDLING &amp; STORAGE</b>
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#### **SAFE HANDLING**

- Avoid all personal contact, including inhalation
- Wear protective clothing
- Use in a well ventilated area
- Prevent concentration in hollows and sumps
- Do NOT enter confined spaces until the atmosphere has been checked and cleared
- Avoid smoking, naked flames and ignition sources
- Avoid contact with incompatible materials
- Do NOT eat, drink or smoke when handling this product
- Ensure containers are securely sealed when not in use
- Avoid any physical damage to the containers
- Always wash hands with soap and water after handling this product
- Work clothes should be laundered separately to other clothing
- Use good OH&S work practices
- Observe manufacturer's storage and handling recommendations contained within this MSDS
- The atmosphere in the work area should be regularly checked against established exposure standards to ensure safe working conditions

#### **OTHER INFORMATION**

- Store in original containers
- Keep containers securely sealed
- No smoking, naked flames or ignition sources
- Store in a cool, dry, well ventilated area
- Store away from incompatible materials and food stuff containers
- Protect containers against physical damage and check regularly for leaks
- Observe manufacturer's storage and handling recommendations contained within this MSDS

#### **CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

##### **SUITABLE CONTAINER**

- Metal can or drum
- Packaging as recommended by manufacturer

##### **STORAGE INCOMPATIBILITY**

- Avoid storage with oxidizers

##### **PACKAGE MATERIAL INCOMPATIBILITIES**

- Not available

<b>SECTION 8</b>	<b>EXPOSURE CONTROLS &amp; PERSONAL PROTECTION</b>
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**CONTROL PARAMETERS**

Occupational Exposure Limits (OEL)  
Ingredient Data  
Not available

**EMERGENCY LIMITS**

**Ingredient:** Diesel Fuel Bug Biocide

TEEL-0: Not available TEEL-1: Not available TEEL-2: Not available TEEL-3: Not available

<b>Ingredient</b>	<b>Original IDLH</b>	<b>Revised IDLH</b>
Hydrocarbon	Not available	Not available
Emulsifier	Not available	Not available
Performance additive	Not available	Not available

**APPROPRIATE ENGINEERING CONTROLS**

General exhaust is adequate under normal operating conditions

**EYE AND FACE PROTECTION**

Safety glasses with side shields; or as required

Chemical goggles

Contact lenses may pose a special hazard; Soft contact lenses may absorb and concentrate irritants. A written policy document describing the wearing of lenses or restrictions on use, should be created for each work place or task. This should include a review of lens absorption and absorption for the class of chemicals in use and an account of injury experience. Medical and First Aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lenses should be removed at the first signs of eye redness or irritation – lens should be removed in a clean environment only, after hands have been washed thoroughly. (CDC NIOSH Current Intelligence Bulletin 59), (AS/NZS 1336 or national equivalent)

**HANDS / FEET AND SKIN PROTECTION**

Nitrile Gloves

PVC Gloves

Safety footwear

**OTHER PROTECTION**

Overalls

Barrier cream

**RESPIRATORY PROTECTION**

Not available

<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance –</b>	Clear brown liquid with hydrocarbon odor, dispersible in water
<b>Physical State -</b>	Liquid
<b>Odor-</b>	Not available
<b>Odor threshold -</b>	Not available
<b>pH (as supplied) -</b>	Not available

Meeting point / Freezing point (°C) -	Not available
Initial boiling point and Boiling range -	Not available
Flash point (°C) -	>61
Evaporation rate -	Not available
Flammability -	Combustible
Upper explosive limit (%) -	Not available
Lower explosive limit (%) -	Not available
Vapor pressure (kPa) -	Not available
Solubility in water (g/L) -	Miscible
Vapor density (Air=1) -	Not available
Relative density (Water=1) -	0.89-0.91
Partition coefficient n-octanol / Water -	Not available
Auto-ignition temperature -	Not available
Decomposition temperature -	Not available
Viscosity (cSt) -	Not available
Molecular weight (g/mol) -	Not available
Taste -	Not available
Explosive properties -	Not available
Oxidizing properties -	Not available
Surface tension (dyn/cm or mN/m) -	Not available
Volatile component (%v) -	Not available
Gas group -	Not available
pH as solution (1%) -	Not available
VOC g/L -	Not available

<b>Section 10</b>	<b>STABILITY and REACTIVITY</b>
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**REACTIVITY:**

See section 7

**CHEMICAL STABILITY:**

Unstable in the presence of incompatible materials  
Product is considered stable  
Hazardous polymerization will not occur

**POSSIBILITY OF HAZARDOUS REACTIONS:**

See section 7

**CONDITIONS TO AVOID:**

See section 7

**INCOMPATIBLE MATERIALS:**

See section 7

**HAZARDOUS DECOMPOSITION PRODUCTS:**

See section 5

**Section 11**

**TOXICOLOGY INFORMATION**

Information on Toxicological effects

**INHALED:**

Inhalation of vapor is more likely at higher than normal temperature

Acute effects from inhalation of high concentrations of vapor are pulmonary irritation including coughing and nausea; central nervous system depression – characterized by headache and dizziness, increased reaction time, fatigue and loss of co-ordination.

**INGESTION:**

Ingestion may result in nausea, pain and vomiting. Vomit entering the lungs may cause potentially lethal chemical pneumonitis.

**SKIN CONTACT:**

Practical experience predicts that this material may produce inflammation of the skin following direct contact; and / or produces significant inflammation when in contact with the skin for a prolonged or repeated period of time. This may even result in a form of contact Dermatitis (non-allergic). The Dermatitis is often characterized by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intercellular oedema of the epidermis.

**EYE:**

Practical experience predicts that this material may cause eye irritation in a substantial number of individuals and/or is expected to produce significant ocular in prolonged exposure. Repeated or prolonged eye contact may cause inflammation characterized by temporary redness (similar to wind burn) of the conjunctive (Conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.

**CHRONIC:**

Principal routes of exposure are by accidental skin and eye contact and by inhalation of vapors, especially at high temperatures.

Prolonged or continued skin contact with the liquid may cause defatting with drying, cracking, irritation and Dermatitis following.

Chronic solvent inhalation exposures may result in nervous system impairment as well as liver and blood changes.

**TOXICITY AND IRRITATION:**

Data not available to make classification

**ACUTE TOXICITY:**

Data not available to make classification

**SKIN IRRITATION / CORROSION:**

Data not available to make classification

**SERIOUS EYE DAMAGE / IRRITATION:**

Data not available to make classification

**RESPIRATORY OR SKIN SENSITISATION:**

Data not available to make classification

**MUTAGENICITY:**

Data not available to make classification

**CARCINOGENICITY:**

Data not available to make classification

**REPRODUCTIVITY:**

Data not available to make classification

**STOT-SINGLE EXPOSURE:**

Data not available to make classification

**STOT – REPEATED EXPOSURE:**

Data not available to make classification

**ASPIRATION HAZARD:**

Data required to make classification available

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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**Toxicity** – Do NOT discharge into sewer or waterways

**Persistence and Degradability**

**INGREDIENT:** Not available

**PERSISTENCE:** Water/Soil not available

**Bioaccumulative Potential**

**INGREDIENT:** Not available

**BIOACCUMULATION:** Not available

**Mobility in Soil**

**INGREDIENT:** Not available

**MOBILITY:** Not available

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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Waste treatment methods.

**PRODUCT PACKAGING DISPOSAL:**

Recycle wherever possible or consult manufacturer for recycling options.

Consult State Land Waste Management Authority for disposal

Bury residue in authorized landfill

Recycle containers where possible, otherwise dispose of them in an authorized landfill



<b>SECTION 14</b>	<b>TRANSPORTATION INFORMATION</b>
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Labels required

**COMBUSTIBLE LIQUID:** Regulated for storage purposes

**MARINE POLLUTANT:** NOT required

**HAZCHEM:** NOT applicable

**LAND TRANSPORT (ADG)**

Not regulated for land transport of Dangerous Goods

**AIR TRANSPORT (ICAO-IATA/DGR)**

Not regulated for transport of dangerous Goods

**SEA TRANSPORT (IMDG-Code/GGVSee)**

Not regulated for the transport of Dangerous Goods.

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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**SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR SUBSTANCE OR MIXTURE:**

Not applicable

<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
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**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

Revision 1: Change of date from January 2015 to January 2020

The Information and recommendations contained herein are, to the best of Pro-ma Systems (Aust) Pty Ltd's knowledge and belief, accurate and reliable as of the date issued. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use.

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**End of (M)SDS**