

**Product Name: BugGuard Concentrate 500mL**

This revision issued: December 2012

**Section 1 – Identification of the Material and Supplier****Multicrop (Aust) Pty Ltd****Phone: +61 3 8720 2100****6-10 Koornang Rd****Fax: +61 3 9720 5051****Scoresby, Vic 3179****Trade Names:** Multicrop BugGuard Insecticide Organic Concentrate**Product Codes:** 91205**Product Use:** For the control of insect pests on indoor plants and outdoor crops, fruit trees, vegetables, nut crops and nurseries.**This version issued:** December 2012 and is valid for 5 years from this date.**Section 2 – Hazards Identification**

Not hazardous according to GHS.

**Section 3 – Composition/Information on Ingredients****Chemical Characterisation**

Liquid

| <b>Ingredient ( Name)</b>     | <b>CAS Number</b> | <b>Concentration</b> |
|-------------------------------|-------------------|----------------------|
| Tert-decanoic acid            | 52627-73-3        | 60-90%               |
| Water                         | 7732-18-5         | 30-60%               |
| Potassium hydroxide           | 1310-58-3         | 10-30%               |
| 1,2,3-Propanetriol (glycerin) | 56-81-5           | <10%                 |

**Section 4 – First Aid Measures****General Information:** For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.**Inhalation:** Remove victim from area of exposure to fresh air. If effects persist seek medical advice. Symptoms may include nausea, headaches, pain and gastrointestinal irritation.**Ingestion:** Do not induce vomiting. Rinse mouth with water. If swallowed, give large quantities of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention if effects persist.**MATERIAL SAFETY DATA SHEET**

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|                          |  |
|--------------------------|--|
| <b>Skin:</b>             | In case of skin contact, immediately remove contaminated clothing and wash affected area with water and soap. Seek medical attention if symptoms occur.                                |
| <b>Eyes:</b>             | In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms occur. |
| <b>Advise to Doctor:</b> | Treat symptomatically, no specific antidote.   |

## Section 5 – Fire Fighting Measures

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| <b>Suitable Extinguishing Media:</b>                                  | Use fire extinguishing media suitable to surrounding fire conditions. Spray water, foam or carbon dioxide.         |
| <b>Hazardous Combustion Products:</b>                                 | If involved in a fire, not combustible, but may support combustion of other materials. Some gases may be released. |
| <b>Special Protective Equipment and Precautions for Fire Fighter:</b> | Wear SWA approved self-contained breathing apparatus and full protective clothing.                                 |
| <b>Unusual fire or explosion Hazards:</b>                             | Product does not present an explosion hazard.  |
| <b>Explosion Hazards:<br/>Hazchem Codes</b>                           | Not applicable   |

## Section 6 – Accidental Release Measures

|   |  |
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| <b>Personal Precautions, Protective Equipment and Emergency Procedures:</b> | Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. For further details refer to section 8  |
| <b>Environmental Precautions:</b>   | In the event of a major spill, prevent spillage from entering drains or water courses. Spills to soil or similar surface may necessitate removal of top soil. The affected area should be placed in appropriate container for disposal.                |
| <b>Methods and Materials for Containment and Cleaning up:</b>               | Slippery when split. Clean up all spills immediately. Stop leak if safe to do so and absorb spill onto sand, earth, vermiculite or some other inert absorbent material. Collect the spilled material and place into a suitable container for disposal. |

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## Section 7 – Handling & Storage

|                                       |  |
|---------------------------------------|--|
| <b>Precautions for safe handling:</b> | Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Ensure adequate ventilation. Food, beverages, and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure. |
| <b>Conditions for safe storage:</b>   | Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Keep away from incompatible materials, organics or ammonia. Do not store with seed, chemicals or foodstuffs.   |

## Section 8 – Exposure Control & Personal Protection

|  |  |
|--|--|
| <b>National Exposure Standards:</b>              | An exposure standard has not been established however the following is recommended TWA 10 mg/m <sup>3</sup>  |
| <b>Engineering Controls:</b>                     | This product should be used in a well ventilated area. Avoid breathing in vapours. If natural ventilation is not sufficient the use of a fan is recommended. Keep containers closed when not in use. |
| <b>Personal Protective Equipment:</b>            | (PPE)  |
| <b>Respiratory Protection:</b>                   | In case of intensive or longer exposure use self-contained respiratory protective device. See Australian Standards AS/NZS 1715 and 1716 for more information.  |
| <b>Eye/Face Protection:</b>                      | Safety glasses with top and side shields. See Australian Standards AS/NZS 1336 and 1337 for more information.  |
| <b>Skin Protection:</b>                          | Protective PVC gloves, protective overall, waterproof apron and safety boots. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.  |
| <b>Hygiene Measures:</b>                         | After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.                   |
| <b>Requirements concerning Special Training:</b> | Refer to your State or Territory legislation for required training guidelines.   |

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**Section 9 – Physical & Chemical Properties**

|                                |                 |
|--------------------------------|-----------------|
| <b>Form:</b>                   | Liquid          |
| <b>Appearance:</b>             | Amber liquid    |
| <b>Odour :</b>                 | No odour        |
| <b>Melting Point:</b>          | N/A             |
| <b>Boiling Point:</b>          | 100°C           |
| <b>Solubility in water:</b>    | Yes             |
| <b>Specific Gravity:</b>       | 1.03            |
| <b>pH:</b>                     | 10-11           |
| <b>Vapour Pressure (20°C):</b> | As water        |
| <b>Flammability:</b>           | Non combustible |

**Section 10 – Stability & Reactivity**

|                                |   |
|--------------------------------|---|
| <b>Chemical stability:</b>     | Stable at ambient temperature and under normal conditions of use.       |
| <b>Incompatible Materials:</b> | Avoid contact with strong bases, strong acids, strong oxidizing agents. |
| <b>Conditions to avoid:</b>    | Excessive heat.   |

**Section 11 – Toxicological Information**

|                                |  |
|--------------------------------|--|
| <b>Toxicology Information:</b> | Low toxicity   |
| <b>Inhalation:</b>             | Breathing in mist or vapours may result in mild respiratory irritation. Side effects of inhalation of spray mists can include nausea, headaches, pain and gastrointestinal irritation. |
| <b>Ingestion:</b>              | Ingestion is not a likely form of exposure. If however swallowing does occur, symptoms such as nausea, vomiting, pain and gastrointestinal irritation and diarrhoea may occur.         |
| <b>Eyes:</b>                   | Irritant when in contact with eyes.  |
| <b>Skin:</b>                   | Irritation may result from prolonged and repeated exposure or contact with the concentrate.  |

**Section 12 – Ecological Information**

Do not let this product enter drains, water bodies and sewerage systems. This product may be toxic to aquatic life. Undergoes ionic dissociation. This product contains phosphorus which should be excluded from surface and ground water.

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## Section 13 – Disposal Considerations

|                            |   |
|----------------------------|---|
| <b>Product Disposal:</b>   | This product should be used for its intended purpose. Contact local authorities who hold collections of unwanted chemicals (ChemClear <sup>®</sup> 1800008182) if disposal of this product is required. On site disposal of the concentrated product is not acceptable.   |
| <b>Container Disposal:</b> | Do not reuse this container for any purpose. Instructions outlining the disposal of the product container are given on the label. These should be carefully followed. Additional assistance is available from drumMUSTER ( <a href="http://www.drummuster.com.au">http://www.drummuster.com.au</a> ). DrumMUSTER is the national program for the collection and recycling of crop production and on-farm animal health chemical containers. View their website to find contact details for your area. Empty containers and product should not be burnt. |

## Section 14 Transport Information

|                               |   |
|-------------------------------|---|
| <b>Transport Information:</b> | It is recommended not to transport agricultural chemicals with foods, food related products and animal feed.  |
| <b>Storage and Transport:</b> | This product is not classed as a dangerous good for transport by the Australian Dangerous Goods Code (ADG Code) for the transport of dangerous goods by road or rail. |
| <b>IMDG UN Number:</b>        | This product is not classed as a Dangerous Good for transport by the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea                     |

## Section 15 Regulatory Information

|                         |  |
|-------------------------|--|
| <b>Classification:</b>  | Not classified as hazardous according to criteria of GHS   |
| <b>Poison Schedule:</b> | None allocated   |
| <b>Hazard Category:</b> | None allocated   |
| <b>AICS (AUST):</b>     | All of the components in this product are listed on the Australian Inventory of Chemical Substances. |

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## Section 16 Other Information

**Last revision of MSDS:**

Rev1.0 (30/05/2013)

**GHS:** Globally Harmonised System of Classification and Labelling of Chemicals

**ADG Code:** Australian Dangerous Goods Code for the Transport of dangerous Goods by Road and Rail.

**IMDG Code:** International Maritime Dangerous Goods Code for transport by sea

**SWA:** Safe work Australia Formerly ASCC and NOHSC

**AICS:** Australian Inventory of Chemical Substances

**Emergency Contacts:**

Multicrop (Aust) Pty Ltd (03) 9720 2200

Police and Fire Brigade: 000

Poison Information Centre: 13 11 26

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