



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 December 2016

#### 1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** **CAMPBELL BACCHUS WG BIOLOGICAL INSECTICIDE**

**Other Names:** Bacillus thuringiensis Berliner subsp. aizawai strain GC-91

**Chemical Group:** Biological insecticide

**CAS No.:** 31393-98-3, 25719-60-2

**Recommended Use:** Insecticide for use on horticultural crops

**Supplier Details:** Colin Campbell (Chemicals) Pty Ltd ABN 29 000 045 590  
5 Blackfriar Place  
Wetherill Park NSW 2164

**Telephone:** (02) 9725 2544

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**Email:** [cccsyd@campbellchemicals.com.au](mailto:cccsyd@campbellchemicals.com.au)

**Website:** [www.campbellchemicals.com.au](http://www.campbellchemicals.com.au)

**Contact:** Product Development Manager – (02) 9725 2544

**Emergency Telephone Number:** 13 11 26 (Poisons Information Centre)

#### 2) HAZARDS IDENTIFICATION

**GHS classification:** Skin sensitisation: Category 1  
Eye irritation : Category 2A

**GHS Signal Words:** WARNING

**Hazard Statements :** None applicable

**General Precautionary Statements :** P102 : Keep out of reach of children.  
P103 : Read label before use.

**Pictograms :** None applicable.

**Precautionary statements Prevention:** P261 : Avoid breathing dust, fumes, gas, mist, vapours or spray.  
P264 : Wash hands thoroughly after handling.  
P272 : Contaminated work clothing should not be allowed out of the workplace.  
P280 : Wear protective clothing, chemical resistant gloves, and safety glasses.  
P273 : Avoid release to the environment.

**Precautionary statements Response:** P302 + P352 IF ON SKIN : Wash with plenty of soap and water.  
P362 + P364 : Take off contaminated clothing and wash it before reuse.  
P304 +P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do then continue rinsing cautiously.  
P337 + P313 : If eye irritation persists: Get medical attention.



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- Storage :** P233 : Keep container tightly closed.  
P410 : Protect from sunlight.  
P402 + P404 : Store in a dry place. Store in a closed container.  
P403+P235 : Store in a well-ventilated place. Keep cool.
- Disposal:** P501 Dispose of contents/container to an approved waste disposal plant.
- Other information :** Non dangerous good as defined by the Australian Dangerous Goods Code for transport by road and rail in Australia.  
Hazardous goods as defined by SWA.

#### 3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Btk fermentation solids	68038-71-1	30-60%
Proprietary	Proprietary	Balance

#### 4) FIRST AID MEASURES

**If poisoning occurs, move out of dangerous area immediately contact a doctor or Poison Information Centre (Ph: 13 11 26) and follow the advice given.  
Show this Safety Data Sheet to the doctor.**

- If inhaled:** Move to fresh air and keep at rest in a position comfortable for breathing. If person is not breathing, call a doctor and give artificial respiration, preferably mouth to mouth if possible.
- In case of skin contact:** Carefully remove contaminated clothing and shoes immediately. Wash affected areas with mild soap and plenty of water. Cover irritated skin with emollient. May cause skin sensitisation. If skin redness or irritation or burning occurs, get medical attention. Wash contaminated clothing before reuse.
- In case of eye contact:** May cause eye irritation. Rinse cautiously with water for 15-20 minutes. Remove contact lenses, if present and easy to do after the first 5 minutes of washing, then continue rinsing cautiously for several minutes. If eye irritation persists, call a doctor.
- If swallowed:** Remove from source of exposure. DO NOT induce vomiting. Give large amounts of water. If signs of toxicity appear, contact a Poisons Information Centre or a doctor. Do not give anything by mouth to an unconscious person.
- First Aid facilities** Ensure eye wash and safety shower are available.
- Medical Attention:** No information on symptoms. The first aid procedure should be established in consultation with a doctor responsible for industrial medicine.



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#### 5) FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Water spray, carbon dioxide, foam or dry chemical. Use appropriate medium for the underlying cause of the fire.
<b>Hazard from combustion products</b>	Carbon oxides, nitrogen oxides.
<b>Precautions for fighting fires</b>	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely remove intact containers from the fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire residues and contaminated fire extinguishing water in accordance with local regulations. Do not release contaminated water into the environment.
<b>Hazchem Code</b>	Not applicable

#### 6) ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. Do not smoke, eat or drink during the clean up process. Wear personal protective clothing and equipment as detailed in Section 8 PERSONAL PROTECTION. Keep people and animals away. Ensure adequate ventilation. Contain spill and absorb with earth, sand, clay or other absorbent material. Prevent spilled material from entering drains or watercourses. Collect and store in properly labelled drums for safe disposal. Clean floor with a damp cloth and place it in the drum. Seal drums and label ready for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc is unavoidable warn the local water authority.

#### 7) HANDLING AND STORAGE

<b>Handling</b>	Keep out of reach of children. Avoid contact with skin and eyes. Avoid breathing dust or vapour. When using do not eat, drink or smoke. Do not inhale spray mist. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.
<b>Storage</b>	Store in the tightly closed original container in a locked cool well ventilated area out of sunlight. Do not reuse empty container. Do not store with food, feed or other materials to be used or consumed by humans and animals.

#### 8) EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Exposure Standards</b>	No exposure limits allocated. Exposure standard – Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day working week.
<b>Biological Limit Values</b>	None allocated



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<b>Engineering Controls</b>	Control process conditions to avoid contact. Use in a well ventilated area only. Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower. Provide mechanical ventilation for enclosed spaces.
<b>Personal Protective Equipment</b>	Eyes: Safety goggles. Eye wash bottle with pure water. Clothing: Impervious overalls buttoned to the neck and wrists and a washable hat. Gloves: Polyvinyl alcohol or nitrile-butyl-rubber gloves. Before removing gloves clean them with soap and water. Respiratory: Not necessary unless adequate ventilation is inadequate. If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.

#### 9) PHYSICAL AND CHEMICALS PROPERTIES

<b>Appearance:</b>	Granule, yellow to brown.
<b>Odour:</b>	Organic/malt
<b>pH:</b>	~ 4.1 (10% dilution)
<b>Vapour pressure:</b>	Not available.
<b>Vapour density:</b>	Not available
<b>Boiling point:</b>	100°C
<b>Freezing/Melting point:</b>	Not available
<b>Solubility:</b>	Suspends in water.
<b>Bulk density:</b>	0.473 g/mL
<b>Viscosity:</b>	Not determined
<b>Flash point:</b>	Not flammable
<b>Flammability</b>	Not flammable
<b>(explosive) limit:</b>	
<b>Auto ignition temperature:</b>	Not available
<b>Partition coefficient (octanol/water):</b>	Not available

#### 10) STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable at ambient temperatures. Spontaneous reaction not possible.
<b>Conditions to avoid:</b>	None known
<b>Incompatible materials :</b>	None known
<b>Hazardous decomposition products:</b>	In a fire, formation of dense smoke, carbon monoxide and carbon dioxide and unidentified organic compounds can be expected.
<b>Hazardous reactions:</b>	Stable under recommended storage conditions. No decomposition if used as directed.



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11) TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	May cause respiratory irritation.
<b>Skin contact:</b>	Mildly to slightly irritating.
<b>Eye contact:</b>	Mildly irritating
<b>Ingestion:</b>	Not a likely route.
<b>Chronic toxicity:</b>	
<b>Germ cell mutagenicity:</b>	Components of this product are not listed as mutagenic.
<b>Carcinogenicity:</b>	Components of this product are not listed as carcinogenic by NTP, IARC or SWA.
<b>Toxic to reproduction:</b>	Components of this product are not listed as teratogenic.
<b>Specific target organ toxicity (repeated exposure):</b>	Not applicable – acute toxicity testing was all negative.
<b>Acute toxicity:</b>	
<b>Oral toxicity:</b>	LD <sub>50</sub> (rats) : >5,050 mg/kg
<b>Dermal toxicity :</b>	LD <sub>50</sub> (rabbit) : >2,020 mg/kg
<b>Inhalation toxicity:</b>	Not able to generate sufficient product into the air.
<b>Sensitisation:</b>	Not a sensitiser (guinea pig)
<b>Respiratory sensitisation</b>	Not applicable
<b>Specific target organ toxicity (single exposure):</b>	Eye and mucous membrane irritation.

12) ECOLOGICAL INFORMATION

DO NOT contaminate streams, rivers or waterway with this product or the used containers.

<b>Ecotoxicity:</b>	Fish : LC <sub>50</sub> >2.87 x 10 <sup>7</sup> cfu/L (96-hr rainbow trout). Bird: LC <sub>50</sub> >6.2 x 10 <sup>11</sup> cfu/kg (acute oral bobwhite quail) LC <sub>50</sub> >2857mg/kg (5.7 x 10 <sup>10</sup> cfu/kg) each day for 5 days (sub acute oral dietary – bobwhite quail Invertebrates : EC <sub>50</sub> >50mg/L (48-hr) (Daphnia) 21-day NOEC >5.0 mg/L (Daphnia) Honeybee : Essentially non-toxic to honey bee.
<b>Environmental fate, persistence and degradability, mobility</b>	No data available.



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**Identified harmful effects on environment:** There is no other data available for this product.

**Other precautions:** Do not contaminate dams, waterways or sewers with this product or used containers.

#### 13) DISPOSAL CONSIDERATIONS

This product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used containers. Triple or preferable pressure rinse containers before disposal. Add rinsings to the mixing tank. Do not dispose of undiluted chemical on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Do not reuse empty containers.

#### 14) TRANSPORT INFORMATION

##### International regulation

**UNRTDG** Not regulated as a dangerous good.

**IATA-DGR** Not regulated as a dangerous good

**IMDG-Code** Not regulated as a dangerous good.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :** Not applicable for product as supplied.

##### National Regulations

###### ADG Code

Not considered as a dangerous good for transport by road or rail in Australia under the Australian Dangerous Goods Code.

#### 15) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 58991



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**16) OTHER INFORMATION**

Date of revision : 1 December 2016  
Reason for revision : Upgrading to GHS format.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

**END OF SDS**