



BioCeres® WP  
Biological Mycoinsecticide

**SAFETY DATA SHEET**

EPA Reg. No.: 89600-2

Canada Reg. No.: 31230

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**Section I: IDENTIFICATION**

|                                 |                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product identifier on the label | BioCeres® G WP                                                                                                                                     |
| Trade Name & Synonyms           | BioCeres® G WP                                                                                                                                     |
| Manufacturer                    | <b>Anatis Bioprotection, Inc.</b><br>278, rang Saint-André<br>St-Jacques-le-Mineur (QC), Canada JOJ 1Z0<br>1-800-305-7714 tel.<br>514-485-0323 fax |

|                     |                                |
|---------------------|--------------------------------|
| Emergency telephone | Poison Control: 1-800-222-1222 |
|---------------------|--------------------------------|

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**Section II HAZARDS IDENTIFICATION, CLASSIFICATION**

Non-hazardous

Moderate but temporary eye irritant  
Potential Allergen  
Potential Skin sensitisation  
Potential Airway sensitisation

Substance contributing to the classification: *A.I. Beauveria bassiana*, strain ANT-03

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**Section III COMPOSITION/INFORMATION ON INGREDIENTS**

|                          |                                                                     |
|--------------------------|---------------------------------------------------------------------|
| Active Ingredient (A.I.) | <i>Beauveria bassiana</i> , strain ANT-03<br>CAS# (A.I.) 63428-82-0 |
| Formula Contains         | 20% <i>Beauveria bassiana</i> , strain ANT-03<br>80% inerts         |

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**Section IV FIRST AID MEASURES**

If in eye: Hold open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

If on skin: Take off contaminated clothing. Rinse immediately with running water 15-20 minutes. Wash the area exposed with soap.

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If inhaled: Move person to fresh air. If person is not breathing, call first aid responder, then give artificial respiration preferably mouth-to-mouth.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Treat symptomatically.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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## **Section V: FIRE-FIGHTING MEASURES**

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Product is non-flammable under normal conditions of storage, manipulation and use.

Extinguishing measure: In case of inflammation, use tap-water.

Hazardous combustion products development: None.

Act in accordance with the corporate's emergency plan.

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## **Section VI ACCIDENTAL RELEASE MEASURES**

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Remove persons not wearing protective clothing from spill area;

Wear personal protection equipment against potential contact with the spilt product when working on stopping the release/repairing the leak;

Protect streams and sewers from contamination.

Physicochemical properties allow usage of any absorbent material.

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## **Section VII HANDLING AND STORAGE**

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Precaution for safe handling Comply with the current legislation concerning the prevention of industrial risks;

Wear personal protective equipment to avoid inhalation, contact with skin and eyes.

Precaution for safe storage

Keep container hermetically sealed preventing humidity penetration;

Keep separate from food and animal feed.

Technical recommendations to prevent ergonomic and toxicological risks

Wash hands before eating, drinking, chewing gum, using tobacco or using toilet;

Remove clothing immediately if product gets inside, then clean thoroughly and put on clean clothing;

Keep out of reach of children.

Technical recommendations to prevent environmental risks

BioCeres-WP is considered safe for the environment.

It is suggested to limit spreading during pollination period;

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DO NOT apply this product to fresh water habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) and estuarine/marine habitats. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. Have handy an emergency plan to limit drainage into sewages and stream.

Conditions for safe storage, including any incompatibilities:

Technical measures for storage: Keep storage temperature cool, ideally refrigerated 4 °C

Dry environment;

Keep container sealed

Avoid penetration of humidity in the mixture

Away from direct sunlight (UV) and heat;

Maximum time: 6 months at room temperature

12 months at 4 °C

General conditions for storage: Separated from food storage

Specific end use(s): No special recommendation.

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## **Section VIII EXPOSURE CONTROLS/PERSONAL PROTECTION WHEN HANDLING AND SPRAYING**

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There are no environmental limits for the substances contained in the product.

Respiratory protection: Masks tested and approved under appropriate government standards NIOSH/OSHA for vapors and dust (eg. Filter N-95, P-95).

Ventilation system: Local exhaust.

Eye protection: Protective goggles.

Skin protection: Gloves, waterproof and chemical resistant.

Other protective equipment: Long-sleeved shirt, long pants, shoes and socks.

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## **Section IX PHYSICAL AND CHIMICAL PROPERTIES**

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|                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|
| Appearance and odor                           | Fine white powder, odorless                   |
| Solubility in water (% by weight)             | Not relevant due to the nature of the product |
| Specific gravity at 22°C (g/cm <sup>3</sup> ) | 0.45                                          |

Volatility:

|                                       |                                               |
|---------------------------------------|-----------------------------------------------|
| Boiling point at atmospheric pressure | Not relevant due to the nature of the product |
| Vapor pressure at 20 °C               | Not relevant due to the nature of the product |
| Vapor pressure at 50 °C               | Not relevant due to the nature of the product |
| Evaporation rate at 20 °C             | Not relevant due to the nature of the product |

Product description:

|                              |                                               |
|------------------------------|-----------------------------------------------|
| Density at 20 °C             | Not relevant due to the nature of the product |
| Relative density at 20 °C    | Not relevant due to the nature of the product |
| Dynamic viscosity at 20 °C   | Not relevant due to the nature of the product |
| Kinematic viscosity at 20 °C | Not relevant due to the nature of the product |

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|                                             |                                               |
|---------------------------------------------|-----------------------------------------------|
| Kinematic viscosity at 40 °C                | Not relevant due to the nature of the product |
| Concentration                               | Minimum of $1 \times 10^{10}$ conidia/g       |
| pH                                          | Not relevant due to the nature of the product |
| Partition coefficient n-octanol/water 20 °C | Not relevant due to the nature of the product |
| Decomposition temperature                   | Not relevant due to the nature of the product |

**Flammability:**

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Flash Point              | Not relevant due to the nature of the product |
| Autoignition temperature | Not relevant due to the nature of the product |
| Lower flammability limit | Not relevant due to the nature of the product |
| Upper flammability limit | Not relevant due to the nature of the product |

**Section X STABILITY AND REACTIVITY**

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Chemical stability               | Stable under recommended storage conditions |
| Unusual fire hazards             | None                                        |
| Unusual explosion hazards        | None                                        |
| Incompatibility                  | Strong acids, strong bases                  |
| Condition to avoid               | Heat                                        |
| Material to avoid                | No data available                           |
| Hazardous decomposition products | None                                        |

**Section XI TOXICOLOGICAL INFORMATION****Likely routes of exposure**

|             |     |           |                           |
|-------------|-----|-----------|---------------------------|
| Eye contact | Yes | Ingestion | Yes                       |
| Inhalation  | Yes | Skin      | Yes, only if skin are cut |

**Symptoms related to the physical, chemical and toxicological characteristics**

|             |                                    |           |                                             |
|-------------|------------------------------------|-----------|---------------------------------------------|
| Eye contact | May cause moderate eye irritation. | Ingestion | May be harmful if swallowed.                |
| Inhalation  | May cause sensitization.           | Skin      | May cause irritation;<br>May sensitization. |

**Effects**

Immediate: Moderate but temporary eye irritation. May cause skin irritation.

Delayed: Unavailable information.

Chronic short term exposure: Unavailable information.

Chronic long term exposure: May cause skin and airways sensitisation.

**ACUTE TOXICITY**

Acute referral dosage: not required (2)

| Criteria                                                               | Value/classification    |
|------------------------------------------------------------------------|-------------------------|
| Oral LD <sub>50</sub> -rat- (CFU/animal)                               | > $1.3 \times 10^9$ (1) |
| Dermal DL <sub>50</sub> -rat- (mg/kg)                                  | > 5,050 (1)             |
| Pulmonary infectivity and toxicity LD <sub>50</sub> -rat- (CFU/animal) | > $1.1 \times 10^9$ (1) |

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Ocular -rabbit-

Moderate irritant

**CHRONIC TOXICITY ESTIMATES**

Higher tier subchronic and chronic toxicity studies were not required because of the low acute toxicity of the MPCA

No indications of infectivity, toxicity or pathogenicity in the test animals treated in the Tier I acute oral and pulmonary toxicity/infectivity tests.

| Criteria                                                  | Value/classification                                                                                                       |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Immune system -rodent-                                    | Intact and able to process and clear the MPCA (1).                                                                         |
| Endocrine system -animals-                                | No evidence suggesting <i>B. bassiana</i> has the potential to cause adverse effects (1).                                  |
| Nervous system                                            | Exemption from the requirement of a tolerance (2).                                                                         |
| Carcinogenicity/mutagenicity and toxicity to reproduction | No evidence suggesting <i>B. bassiana</i> has the potential to cause such adverse effects. Long term studies not required. |
| Specific target organ toxicity-time or repeated- exposure |                                                                                                                            |

Other specific toxicology information on the substances: Potential allergen.

**Section XII ECOLOGICAL INFORMATION**

Aquatic plants and algae: May be harmful. The manufacturer strongly suggests limiting applications to area beyond 50 feet from aquatic habitats.

Pollinators: Although shown no toxicity when used in accordance with label directions and good agricultural practices. The manufacturer strongly suggests limiting applications when actively foraging.

Insects other than pollinators: May be harmful.

Avian: Not toxic when used in accordance with label directions and good agricultural practices.

Plants, fruits and vegetables: No phytotoxicity.

Landfill: Non-toxic.

Results of persistent, bioaccumulative and toxic and/or very persistent and very bioaccumulative: Not applicable due to the nature of the product.

Persistence and degradability: Not available.

Bioaccumulation potential: Not applicable due to the nature of the product.

Mobility in soil: Minimal.

Other adverse effects: No data available.

**DO NOT apply this product to fresh water habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) and estuarine/marine habitats.**

**Section XIII DISPOSAL CONSIDERATION**

**This MSDS information is accurate to the best knowledge of Anatis Bioprotection, Inc. Anatis Bioprotection, Inc. does not assume any legal responsibility for reliance upon same.**

Check with your local waste management authority, environmental agency or health department to find out whether your community has a household waste collection program or a similar program for getting rid of leftover biopesticides;

Not recommended to disposal large amount down the drain.

Do not reuse as a container;

Non-toxic landfill, then triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by local authorities.

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**Section XIV TRANSPORT INFORMATION**

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Not dangerous goods;

Not regulated for transport (International Air Transport Association, International Maritime Dangerous Good, Department of Transportation, US).

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**Section XV REGULATORY INFORMATION**

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Not WHMIS controlled.

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**SECTION XVI OTHER INFORMATION**

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This safety data sheet has been designed in accordance with Occupational Safety and Health Administration, Appendix D to § 1910.1200-Safety Data Sheets.

References

- (1) Pest Management Regulatory Agency, 2014. Proposed Registration Document PRD2014-06: strain ANT-03 de *Beauveria bassiana*. Health Canada, 7<sup>th</sup> of February 2014, 42 p.
  - (2) US EPA: United States Environmental Protection Agency, 2013). *Beauveria bassiana* strain ANT-03, Petition to establish an exemption from the requirement of a tolerance. EPA Biopesticides and Pollution Prevention Division, company notice of filing for pesticide petitions published in the federal register, Posted December 30, 2013, 7 p.
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