

# SAFETY DATA SHEET BioTitan® GR

Biological Mycoinsecticide

**Section I: IDENTIFICATION** 

Product identifier on the label Trade Name & Synonyms

Manufacturer

BioTitan® GR BioTitan® GR

**Anatis Bioprotection, Inc.** 

278, rang Saint-André

St-Jacques-le-Mineur (QC), Canada JOJ 1Z0

1-800-305-7714 tel. 514-485-0323 fax

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

# Section II HAZARDS IDENTIFICATION, CLASSIFICATION

Non-hazardous

Potential Sensitizer Warning eye irritant Wàarning poison

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

# Section III COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient (A.I.) Beauveria bassiana, strain ANT-03

CAS# (A.I.) 63428-82-0

Formula Contains 7 % Beauveria bassiana, strain ANT-03

93 % inerts

# **Section IV FIRST AID MEASURES**

If in eyes: 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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Version 2 May 2021 Page **1** of **6** 

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

<u>If swallowed</u>: 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.

Take container, label or product name and Pest Control product Registration Number with you when medical attention.

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

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.

# Section VI ACCIDENTAL RELEASE MEASURES

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.

#### **Section VII HANDLING AND STORAGE**

<u>Precaution for safe handling</u> 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 fed.

# 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

BioTitan GR is considered safe for the environment.

It is suggested to limit spreading during pollination period;

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Version 2 May 2021 Page 2 of 6

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,

Dry environment; Keep container sealed

Avoid penetration of humidity in the mixture Away from direct sunlight (UV) and heat;

General conditions for storage: Separated from food storage Specific end use(s): No special recommendation.

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

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

<u>Respiratory protection:</u> Masks tested and approved under appropriate government standards NIOSH approved particulate filtering facepiece respirator with any N, R or P filter when handling, mixing/loading or applying.

Ventilation system: Local exhaust.

Eye protection: Protective goggles.

Skin protection: Gloves, waterproof.

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

# Section IX PHYSICAL AND CHIMICAL PROPERTIES

Appearance and odor	Cream- white granules, odorless
Solubility in water (% by weight)	Not relevant due to the nature of the product
Specific gravity/density at 22°C (g/cm <sup>3</sup> )	0.72 - 0.76

# 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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Version 2 May 2021 Page **3** of **6** 

Kinematic viscosity at 40 °C

Not relevant due to the nature of the product

Concentration Minimum of 2.0 x 10 9 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 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
Not relevant due to the nature of the product
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 eye irritation. Ingestion May be harmful if swallowed. Inhalation May be fatal of inhaled. Skin May cause 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 sensitization.

# **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	$> 1.1 \times 10^9 (1)$	
toxicity LD <sub>50</sub> -rat- (CFU/animal)	> 1.1 X 1U (1)	

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Version 2 May 2021 Page 4 of 6

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).  Exemption from the requirement of a tolerance (2).
Nervous system Carcinogenicity/mutagenicity and toxicity to reproduction Specific target organ toxicity- time or repeated- exposur	No evidence suggesting <i>B. bassiana</i> has the potential to cause such adverse effects. Long term studies not required.

Other specific toxicology information on the substances: Potential allergen.

# **Section XII ECOLOGICAL INFORMATION**

<u>Aquatic plants and algea</u>: May be harmful. The manufacturer strongly suggests limiting applications to area beyond 50 feet from aquatic habitats.

<u>Pollinators:</u> 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

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Version 2 May 2021 Page 5 of 6

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.

# **Section XIV TRANSPORT INFORMATION**

Not dangerous goods;

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

# Section XV REGULATORY INFORMATION

Not WHMIS controlled.

# **SECTION XVI OTHER INFORMATION**

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, 2020. Proposed Registration Document PRD2020-16: strain Beauveria bassiana strain ANT-03, BioCeres F WP, BioCeres F GR and BioCeres D GR. Health Canada, 15th of December 2020.
- (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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Version 2 May 2021 Page 6 of 6