

Revision Date: December 15, 2022

SAFETY DATA SHEET

SECTION 1: PRODUCT INFORMATION

Product Identifier: *Cucumber green mottle mosaic virus* (CGMMV) Strain BM3

Other Means of Identification: AL-Bio10; ON-BM3

Registration Number: 34682 (Pest Control Products Act)

Product Use: Technical. For use in manufacturing, formulating or repackaging only. Read the product label, authorized under the *Pest Control Products Act*, prior to using or handling the pest control product.

A&L Biological Inc.

Agroecology Research Services Ctr.

2136 Jetstream Road

London, ON N5V 3P5

SDS prepared by: A&L Biological Inc.

For further information, contact: 1-855-837-8347

In Case of Emergency, Call: 1-800-268-9017 (Ontario Poison Centre)

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with UN GHS Version 5.

Hazard Classification(s):

Eye Irritation – Category 2B

Skin Sensitization – Category 1

Hazard Symbol(s):



Signal Word: WARNING

Hazard Statement(s):

H317 – May cause an allergic skin reaction.

H320 – Causes eye irritation.

Precautionary Statement(s):

Prevention:

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 – Wash thoroughly after handling.

P272 – Contaminated work clothing should not be allowed out of the workplace. P280

– Wear protective gloves.

Response:

P302+P352 – IF ON SKIN: Wash with plenty of water.

Revision Date: December 15, 2022

SAFETY DATA SHEET

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 – Specific treatment: See Section 4 of this SDS.

P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 – If eye irritation persists: Get medical advice/attention.

P362+P364 – Take off contaminated clothing and wash it before reuse.

Storage:

Not applicable.

Disposal:

P501 – Dispose of contents/containers in accordance with local regulations.

Other Hazards Which do not Result in GHS Classification:

To avoid risk to human health and the environment, follow the instructions for use.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
Cucumber green mottle mosaic virus (GCMMV), Strain BM3	n/a	2 x 10 ⁵ particles/μL

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

SECTION 4: FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling A&L Biological, a poison control centre or doctor, or going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Eye Contact: Flush eyes with clean water, holding eyelids apart for a minimum of 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eyes. Obtain medical attention immediately if irritation persists.

Skin Contact: Immediately remove contaminated clothing and wash skin, hair and fingernails thoroughly with soap and water.

Inhalation: Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible.

Ingestion: Have person sip a glass of water if able to do so. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician or a poison control centre. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water.

Most Important Symptoms/Effects, Acute and Delayed:

Micro-organisms may have the potential to provoke sensitizing reactions.

Causes eye irritation.

May cause an allergic skin reaction.

Overexposure by inhalation may cause sensitization and an allergic response in sensitive individuals.

Indication of Immediate Medical Attention and Special Treatment:

There is no specific antidote. Treat symptomatically.

Revision Date: December 15, 2022

SAFETY DATA SHEET

SECTION 5: FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use water, foam, carbon dioxide, dry powder, or water fog or mist. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread the fire.

Specific Hazards Arising from the Product: Responders should take into consideration the biohazard risk associated with responding to a fire in the area where the material may be stored or handled.

Special Protective Equipment and Precautions for Fire-Fighters: Wear full protective clothing and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Control the spill at its source. Clean up spills immediately, observing precautions outlined in Sections 7 and 8. Use engineering controls and personal protective equipment as detailed in Section 8 and/or the product label.

Environmental Precautions: Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water.

Methods and Materials for Containment and Cleaning Up: Pump or scoop large amounts of liquid into a disposable container. Adsorb remaining liquid or smaller spills with paper towels or other adsorbent product and place in a container for disposal. For surface decontamination, gently cover spill with paper towel and apply 1% sodium hypochlorite, starting at the perimeter and working inwards toward the center. Allow sufficient contact time before cleanup (30 min).

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: KEEP OUT OF REACH OF CHILDREN. Wear protective clothing and equipment as described in Section 8 and/or the product label. Handle in accordance with good industrial hygiene and safety practices. Keep containers closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities: Store in original container in a well-ventilated, cool, dry, secure area. Refer to the product label for specific storage recommendations.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

No exposure limits for this material have been established.

Exposure Controls:

Personal Protective Equipment: For normal use and handling conditions, please refer to the product label. In all other cases, the following recommendations would apply.

Respiratory Protection: When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations. **Hand**

Protection: Chemical resistant nitrile rubber gloves.

Eye Protection: Safety glasses with side shields. Wear face shield if splashing hazard exists.

Skin and Body Protection: Wear long-sleeved shirt and long pants and shoes plus socks.

General Protective Measures: Handle in accordance with good industrial hygiene and safety practices. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm water. Keep and wash PPE separately from other laundry. Keep away from food, drink and animal feeding stuffs.

Revision Date: December 15, 2022

SAFETY DATA SHEET

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light to dark green liquid.

Odour: Not available.

Odour Threshold: Not available. **pH:**
6.9 – 7.1

Melting Point/Freezing Point: Not available.

Initial Boiling Point/Boiling Range: Not available.

Flash Point: Not available.

Evaporation Rate: Not available.

Flammability (solid; gas): Not flammable.

Lower Flammable/Explosive Limit: Not applicable.

Upper Flammable/Explosive Limit: Not applicable.

Vapour Pressure: Not applicable.

Vapour Density: Not applicable.

Relative Density: 1.008 – 1.012 g/cm³ @ 24 °C **Solubility:**
Soluble in water.

Partition Coefficient (n-octanol water): Not available.

Auto-Ignition Temperature: Not applicable. **Decomposition**

Temperature: Not available.

Viscosity: Not available.

Other Information: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: Stable under normal use and storage conditions.

Possibility of Hazardous Reactions: No hazardous reactions with normal handling and storage according to the label directions.

Conditions to Avoid: No decomposition if used as directed.

Incompatible Materials: No substances are known which lead to the formation of hazardous substances or thermal reactions.

Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure Routes:

Eye contact, skin contact, ingestion, inhalation.

Immediate Effects:

Eye: Causes eye irritation.

Skin: Not available.

Ingestion: Not available.

Inhalation: Not available.

Revision Date: December 15, 2022

SAFETY DATA SHEET

Toxicological Effects:

Acute oral toxicity: Not available.

Acute inhalation toxicity: Not available.

Acute dermal toxicity: Not available.

Skin corrosion/irritation: Not available.

Serious eye damage/eye irritation: Not available.

Respiratory or skin sensitization: Micro-organisms may have the potential to provoke sensitizing reactions. May cause an allergic skin reaction. Overexposure by inhalation may cause sensitization and an allergic response in sensitive individuals.

Specific Target Organ Toxicity (STOT) Single Exposure:

Not classified as a specific target organ toxicant, single exposure.

Specific Target Organ Toxicity (STOT) Repeated Exposure:

Not classified as a specific target organ toxicant, repeated exposure.

Carcinogenicity:

Not classified as a carcinogen.

Reproductive Toxicity:

Not classified as a reproductive toxicant.

Mutagenicity:

Not classified as a mutagen.

Aspiration Hazard:

Not classified as an aspiration hazard.

Other Toxicity Information:

Misuse can be harmful to health.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Invertebrates:

Not available.

Aquatic Plants:

Not available.

Fish:

Not available.

Persistence & Degradability:

Naturally occurring in the environment.

Bioaccumulative Potential:

Significant bioaccumulation in organisms is not to be expected.

Revision Date: December 15, 2022

SAFETY DATA SHEET

Mobility in Soil:

Not applicable.

Other Adverse Effects: Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

Safe Handling for Disposal:

Dispose of contents/container in accordance with provincial/territorial and local regulations.

Methods of Disposal:

Refer to the product label for specific disposal/recycling information.

Completely empty container into application equipment.

Triple rinse containers.

Do not re-use empty containers.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

Land Transport (TDG):

Not classified as a dangerous good under transport regulations.

Sea Transport (IMDG):

Not classified as a dangerous good under transport regulations.

Air Transport (IATA-DGR):

Not classified as a dangerous good under transport regulations.

Special Precautions for User:

Not applicable.

Transport in Bulk (according to MARPOL):

Not applicable.

SECTION 15: REGULATORY INFORMATION

Domestic Substance List (DSL) / Non-Domestic Substance List (NDSL) Inventory Status: The components of this product are on the DSL Inventory, or are exempt from listing.

Canadian Environmental Protection Act (CEPA) Priorities Substance List: No component of this product is on the CEPA First Priorities Substance Lists.

Hazardous Products Act Information:

This product has been classified in accordance with the amended Hazardous Products Act and the Hazard Criteria of the Hazardous Products Regulations (HPR), and the SDS contains all the information required by the HPR.

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.



Revision Date: December 15, 2022

SAFETY DATA SHEET

Pest Control Products Act (PCPA) Registration No.: NYR

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label:

PCPA Label Hazard Communications:

Potential Sensitizer

Caution – Eye Irritant

There are Canada-specific environmental requirements for handling, use and disposal of this pest control product that are indicated on the product label.

Allergens Contained in the Pest Control Product:

Not applicable.

SECTION 16: OTHER INFORMATION

Revision Date (mmm dd, yyyy): December 15, 2022 Supersedes

Date (mmm dd, yyyy): Not applicable.

Changes since last revision: n/a

A&L Biological Inc. believes that the information provided in this SDS is correct to the best of our knowledge, information, and belief at the date of its publication. No warranty of fitness for any particular purpose, warranty of merchantability, or any other warranty, express or implied, is made concerning the information provided herein. The information provided is designed only as a guide for the safe handling, use, processing, storage, transportation, disposal and is not considered to be a warranty or quality specification. The information relates only to the specific product identified and is not valid when such product is used in combination with any other material or in any process, unless specifically designated in the text. Furthermore, as the conditions of use are beyond the control of A&L Biological Inc., it is the responsibility of the customer to determine the conditions of safe use of this product, and A&L Biological Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

END OF SAFETY DATA SHEET.