

| <b>Section 1- Identification of the hazardous chemical or mixture and the supplier or manufacturer</b> |   |
|--|---|
| Produced by:   | Microendo Inc   |
| Name:  | InsectProtect- <i>M.anisopliae</i>                    |
| Density:   | 0.9817g/ml  |
| Evaporation Range:   | 92°C-94.5°C   |
| Solubility:  | Water soluble   |
| Appearance:  | Viscous liquid  |
| Boiling Point:   | N/A   |
| Freezing Point:  | N/A   |
| Recommendations:   | The product tends to decompose if not stored properly |
| Instability:   | The product is not stable at temperatures above 45°C  |
| Telephone:   | +52 1 3311330388                                      |

## Section 2- Hazard Identification

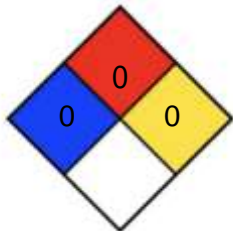
### Classification according to NCh. 382 of. 2015

Not Classified as hazardous

### Identification NCh. 2190 of. 2003

Not applicable

### Identification NCh. 1411/4 of.78



Safety level:

Health level:

Flammability level:

Reactivity level:

Special level:

0- None

0 - None

0 - None

None

### Risks to people's health

May cause irritation to the skin and respiratory tract.

### Risks to the environment

Unidentified

### Hazards of a physical or chemical nature

Contact with combustible material will not cause spontaneous ignition, but could aggravate an existing fire

### Classification according to the Globally Harmonized System 6 Ed. 2015

Hazard class and category

Hazard Indication

Not applicable

Not applicable

**Label elements according to the Globally Harmonized System 6 Ed. 2015**

|                           |                |
|---------------------------|----------------|
| <b>Pictogram</b>          | Not applicable |
| <b>Word of warning</b>    | Not applicable |
| <b>Hazard Indication</b>  | Not applicable |
| <b>Precautionary tips</b> | Not applicable |

---

**Applications:**

**InsectProtect – M. anisopliae** is a bioinsecticide whose action is based on the entomopathogenic activity of the fungus *Metarhizium anisopliae* on pests of the orders Coleoptera, Lepidoptera, Diptera, and many other orders and families of insects that affect agricultural crops.

**InsectProtect – M. anisopliae**, when applied, infects the digestive system and produces alterations in the biological cycle of the insect, causing its death due to dehydration.

The association with **InsectProtect - M. anisopliae** substantially increases the productivity, quality and appearance of crops.

**InsectProtect - M. anisopliae** is an innovative product that contains a combination of spores and mycelium, which increases its biocontrol activity compared to other products made only from fungal spores.

**InsectProtect - M. anisopliae** guarantees a high quality product, harmless to humans and beneficial to the environment, ideal for all types of agricultural, fruit and ornamental crops. Providing you with a 100% organic solution in a more logical and natural way with the environment.

**InsectProtect – M. anisopliae** comes from a fresh and metabolically active crop, which is why its use is recommended at the time of receipt. Very early or during the afternoon, avoiding long hours of sun and solar radiation.

The product is applied injected into the roots or drench directly to the base of the plant. Always make sure that the implement to be used has not had a previous bactericide or fungicide. Wash the pump very well before using it. Preferably use neutral powder soap.

It is recommended to dilute 1 liter of **InsectProtect – M. anisopliae** per hectare in natural water as clean as possible for crops of 1-9 kg and for crops of 10-50 kg use 2 liters per hectare and for crops of 60-100 kg use 3 liters per hectare. Do not dilute more than 300 L for each liter of **InsectProtect – M. anisopliae**.

|   |
|---|
| <b>Section 3- Component Composition</b> |
|---|

| <b>Components</b>                                | <b>% (P/V)</b> |
|--|----------------|
| Viable cells from: <i>Metarhizium anisopliae</i> | 99.9%          |
| Depleted growing medium                          | 0.1%           |

**Product Risk Classification:** Usually NO hazard.

**Risks to people's health:** Mild. It does not cause harmful effects if is handled and used under normal conditions suggested on the label.

**Effects of acute (one-time) overexposure:** If the product comes into contact with the eyes or skin, irritation may occur. Routes of exposure are oral, inhalation, and eyes. Avoid inhaling spray vapors.

**Skin contact:** It can irritate the skin in some people.

**Eye contact:** It can irritate the eyes in some people.

**Ingestion:** May cause severe stomach upset if ingested in large amounts.

**Environmental hazards:** Non-toxic to beneficial fungi.

**Special Product Hazards:** None.

**Specific Risks:** This product is not defined as a hazardous compound. The ingredients in this product are considered non-hazardous

#### **Section 4- First Aid Measures:**

**General:** In case of discomfort or suspected discomfort, stop working and seek medical assistance promptly. Remove those affected from the danger zone. Preferably outdoors. Help the affected person and keep them at rest

**Inhalation:** Remove the affected person from the danger zone. Preferably outdoors. Help the affected person and keep them at rest. Call a doctor.

**Skin contact:** Quickly remove contaminated clothing. Wash the affected area with plenty of soap and water. Call a doctor if your skin is irritated. **Eye contact:** Wash with large amounts of water for 15 minutes, with eyelids open. Consult your ophthalmologist.

**Ingestion:** Consult a doctor. Bring the product label or safety data sheet. Consult the poison control center. Do not induce vomiting. If it occurs spontaneously, keep your respiratory tract clear. Do not give anything by mouth to the unconscious or convulsive person. Apply base treatment.

**Antidote:** There is no specific antidote. Symptomatic treatment should be applied.

**Ingestion:** Consult a doctor. Apply base treatment.

**Human Experiences:** No Known Cases of Poisoning

#### **Section 5 - Fire Measures**

**Flammable:** No

**How to handle a fire:** Wear individual breathing equipment. Use water pressure. If the area is heavily exposed to fire and conditions permit, allow the fire to extinguish itself, because water can increase the contaminated area. Evacuate all staff from the area.

**Personal Protective Equipment for Firefighting:** Wear protective equipment with self-contained breathing equipment or wear an approved respirator mask. Avoid breathing combustion fumes.

#### **Section 6 - Measures in case of spills.**

**Measures to be taken in case of product spills:** Ventilate the environment. Do not direct water into drains. Do not contaminate streams or stored water. Delimit the area to contain the spill, making a wall with adsorbent material such as sawdust, sand or clay.

**Personal protective equipment to handle the emergency:** Wear full protective equipment, long-sleeved shirt, long pants, waterproof gloves, and shoes or boots with socks.

**Precautions to take to avoid damage to the environment:** Read fire and spill regulations before acting.

**Cleaning methods:** Wash the floor with a strong industrial detergent and rinse with water.

**Waste disposal methods:** Cover spilled product with sawdust, sand or clay or other absorbent material. Shoveling or sweeping. Place it in metal or plastic containers suitable for disposal, in an authorized place for this purpose.

#### **Section 7- Product Handling and Storage**

**Product Handling Information:** Always read the instructions on the label before using the product. The recommendations suggested in the safety data sheet should be followed.

**Precautions:** Avoid contact with eyes, skin, and clothing. Avoid inhaling vapors. No eating, no drinking, no smoking on the app.

**Safe Driving Recommendation:** Wear gloves and protective clothing equipment. Do not inhale, wear an approved mask for organic powders, as appropriate.

**Storage Conditions:** Store at room temperature. At a maximum temperature of 45 °C and a minimum of 5 °C. Store away from heat, flames or sparks and direct sunlight.

**Recommended packaging:** Store only in original containers sealed and labeled by the formulator.

#### **Section 8- Exposure Control and Personal Protection**

**Personal Protective Equipment:** Before using the product, read the authorized label and this safety data sheet if available.

## Section 9- Physical and Chemical Properties

### Information on basic physical and chemical properties:

|  |                                   |
|--|-----------------------------------|
| Aspect                                     | Liquid, at 20°C and 1 atmosphere. |
| Color                                      | Light brown                       |
| Smell                                      |                                   |
| Olfactory threshold                        | Not applicable                    |
| pH   | 6                                 |
| Melting Point/Freezing Point               | Not applicable                    |
| Initial boiling point and boiling interval | Not applicable                    |
| Flash point                                | Not applicable                    |
| Evaporation rate                           | Not applicable                    |
| Flammability                               | Not applicable                    |
| Explosion/Flammability Limits              | Not applicable                    |
| Vapor Pressure                             | Not applicable                    |
| Vapor density                              | Not applicable                    |
| Relative density                           | 0.9817g/ml                        |
| Solubility                                 | Water soluble                     |
| N-octanol/water partition coefficient      | Not applicable                    |
| Self-Ignition Temperature (AIT)            | Not applicable                    |
| Decomposition Temperature (°C)             | Not applicable                    |
| Viscosity                                  | Not applicable                    |
| Explosive properties                       | Non-explosive                     |
| Oxidizing properties                       | Non-oxidizing                     |

### Other information

None.

## Section 10- Stability and Reactivity

### Reactivity

No dangerous reactions are expected when handling and storing according to the provisions.

### Chemical Stability

Stable under normal temperature and storage conditions

### Possibility of dangerous reactions

None identified.

### Conditions to avoid

Stay away from flammable materials/substances, combustibles, strong acids, and reducing agents.

### Incompatible Materials

Flammables, combustibles, strong acids, strong alkalis and reducing agents.

### Hazardous Decomposition Products

nitrogen oxides (NO<sub>x</sub>), potassium oxide, potassium nitrite, ammonia, carbon dioxide, carbon monoxide, sulfur oxides, phosphorus oxides.

**General:** Wear clean clothes before application. Inhalation protection: Wear an authorized mask if there is direct and constant contact.

**Eye protection:** Wear authorized goggles and, if necessary, face shield. Hand contact protection: Wear gloves that protect against direct contact.

**Body protection:** Wear clothing to avoid prolonged contact such as a long-sleeved shirt and long pants, shoes, or high boots with socks.

**Ventilation:** Handle the product only in well-ventilated areas. Caution after using the product: Wash hair and body, change clothes, clean protective equipment, and wash equipment used in application with soap and water

### Section 11- Toxicological Information

Not applicable for biological bioinsecticides.

### Section 12- Ecological Information

**Instability:** Very stable.

**Persistence/Degradability:** InsectProtect- M. anisopliae contains fungi that are found in free form in nature. It is commonly found in various ecological niches such as soil, water, and air.

**Bioaccumulation:** Not applicable.

**Effects on the environment:** Not applicable

### Section 13- Transportation Information

Overview. Transport the product in the original authorized container and with the authorized label. Secure the load. If there are spills or accidents, they are covered by insurance. It is transported in authorized and conditioned vehicles. Applicable trademarks or signs: Not applicable. Biological. Labelling authorized by the competent authority. The biological product does not constitute a hazardous substance according to transport regulations.

### Section 14 - Transport Information

|  | Ground Transportation (D.S. 298) | IMDG           |
|--|----------------------------------|----------------|
| No ONU   | 12, 13 y 15                      | Not applicable |
| Official Designation   | Not applicable                   | Not applicable |
| Transport hazard class   | Not classified                   | Not classified |
| Packing Group  | Not applicable                   | Not applicable |
| Security badge   | Not applicable                   | Not applicable |
| Particular precautions for users   |                                  |                |
| None.  |                                  |                |
| Bulk transport in accordance with Annex II of the MARPOL 73/78 Convention and the IBC Code |                                  |                |
| Not classified   |                                  |                |

### Section 15- Regulatory Information

#### Safety, health and environmental regulations and legislation

Classification according to NCh. 382-2013: Not classified as hazardous. Risk and safety information according to NCh. 2190: Not applicable Supreme Decree No. 78. Regulations for the storage of hazardous substances: Not applicable.

---

## Section 16 - Other information

This safety data sheet complies with NCh 2245 Of 2015

The data contained in this sheet are from reliable sources and correspond to the current state of Microendo's knowledge of the product, and do not constitute a warranty on our part. They are intended to describe our products in terms of safety aspects that are required to be known for their handling and/or transport and should not be understood as a guarantee of certain properties. The conditions of safe use of the product are the obligation of the user. This safety data sheet is an unsigned document.

**Data Source:** Raw material safety data sheets

This Safety Data Sheet has been prepared and is intended for this product only

|             |            |                 |        |
|-------------|------------|-----------------|--------|
| <b>Date</b> | of Oct- 23 | <b>Replaces</b> | Oct-24 |
|-------------|------------|-----------------|--------|

**preparation**

**Indication** of Change of format and adjustment of information requirements according to  
**changes:** GHS

Product Names (Section 1)

Identified and discouraged uses (section 1)

Updating Carrier Phones (Section 1)

Identification NCh 1411/4 of. 78 (section 2)

Hazard Identification according to GHS (section 2)

Product Composition (section 3)

Information in all sections was reviewed and updated.