

**SAFETY DATA SHEET (SDS)**

Last Revision: July 6, 2016



**1. IDENTIFICATION**

- **Product Name:** LARVANEM
- **Product Use:** Insect pathogenic nematode against the larvae of various species of beetle e. g. black vine weevil.
- **CFIA Import Permit Number:** P-2016-00966
- **Supplier:** Koppert Canada Limited
- **Address:** 40 Ironside Cres., Unit 3. Scarborough, ON. M1X 1G4
- **Office Number:** +1 (800) 567 4195
- **FOR EMERGENCIES INVOLVING DANGEROUS GOODS:**  
Call CANUTEC's 24-hr Num +1 (613) 996 6666

**2. HAZARD(S) IDENTIFICATION**

- **Classification:** Not applicable.
- **Signal Word:** Not applicable.
- **Precautionary and Hazard Statements:** None expected.
- **Effects of chronic exposure:** None known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredients	Concentration
Formulation of larvae of the parasitic nematode <i>Heterorhabditis bacteriophora</i> with inert carrier.	50 to 250 million

**4. FIRST-AID MEASURES**

- **General:** Move the person from the source of exposure. If irritation occurs or other physical complaints arise, seek medical advice immediately. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.
- **IF SWALLOWED:** May cause gastrointestinal irritation, in case of persistent symptoms consult a doctor.
- **IF ON SKIN OR CLOTHING:** Wash with water and soap and rinse thoroughly. Get medical attention if irritation develops and persists.
- **IF INHALED:** Supply fresh air, keep patient warm and consult doctor if symptoms persist.
- **IF IN EYES:** Rinse open eye for several minutes (~15 min.) under running water. If symptoms persist, consult doctor.

**5. FIRE-FIGHTING MEASURES**

- **Suitable extinguishing agents:** CO<sub>2</sub>, foam, dry chemical, water fog.
- **Unsuitable extinguishing agents:** Not applicable
- **Protective equipment:** No special procedures required besides standard firefighting procedures.
- **Other fire and explosion hazards:** None known.
- **Supplementary information:** The product is non-flammable.

**6. ACCIDENTAL RELEASE MEASURES**

- **Personal precautions:** Wear protective clothing.
- **Emergency Procedure:** Not applicable.
- **Cleaning methods:** Ensure adequate ventilation in the room, collect mechanically and dilute in water.

**7. HANDLING AND STORAGE INFORMATION**

- **Handling:** Prevent the formation of dust. Do not place in a warm environment or in direct sunlight. Read the label before use.
- **Storage:** Storage temperature: 2°C - 6°C (35.6°F – 42.8°F). Do not Freeze. Keep dry and in the dark in robust, closed original packaging.

**8. EXPOSURE CONTROL AND PERSONAL PROTECTION**

- **Measures for the control of exposure:** The usual precautions for chemicals must be taken into account. Avoid contact with skin and eyes by washing hands prior and after to working with the product, and prevent inhalation.
- **Personal Protective Equipment:** Safety gloves, and suitable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- **Appearance:** Solid beige powder.
- **Smell:** Cellar-like odour
- **pH:** 7.5-8.0 at 20°C (10 g/L)
- **Melting point/Freezing point:** Not applicable.
- **Oxidising properties:** Non-oxidising
- **Pour/Tap density at 20°C:** Not applicable.
- **Solubility in water:** 99%
- **Flash Point:** Not applicable.
- **Auto-ignition temperature:** No data.
- **Flammability:** Not applicable.

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- ♦ **Flammable limits (lower):** Not applicable.
- ♦ **Flammable limits (upper):** Not applicable.
- ♦ **Vapor Pressure:** Not applicable
- ♦ **Initial Boiling point and boiling range:** Not applicable.
- ♦ **Evaporation rate:** Not applicable.
- ♦ **Decomposition temperature:** Not applicable.
- ♦ **Viscosity:** Not applicable.

### 10. STABILITY AND REACTIVITY

- ♦ **Chemical stability:** Not applicable.
- ♦ **Hazardous polymerization:** Will not occur.
- ♦ **Thermal decomposition:** Stable for 5 weeks under recommended use and storage conditions.
- ♦ **Conditions to be avoided:** Avoid exposure to sources of heat.
- ♦ **Materials to be avoided:** Oxidizing agents
- ♦ **Dangerous reactions:** No dangerous reactions known
- ♦ **Dangerous decomposition products:** None known.

### 11. TOXICOLOGICAL INFORMATION

- ♦ **Acute toxicity:** Data not available
- ♦ **Primary irritant effect:** Data not available.
- ♦ **Sensitisation:** Data not available.
- ♦ **Chronic effects:** Data not available.
- ♦ **Carcinogenicity:** None of the components is known as carcinogenic; does not contain dangerous goods. Not classified by NTP, IARC or OSHA.
- ♦ **Other health effects:** The product (nematode larvae and inert carrier) is not considered to be toxic.

### 12. ECOLOGICAL INFORMATION

- ♦ **Behaviour in environmental media:**  
*Heterorhabditis bacteriophora* are nematodes pathogenic to beetles.
- ♦ **Mobility and bio-accumulation potential:** Data not available
- ♦ **Ecotoxic effects:** Data not available.
- ♦ **General information:** Neither acute nor chronic effects are known. Inform respective authorities in case product reaches water or sewage system.

### 13. DISPOSAL CONSIDERATIONS

- ♦ **Precautions:** Ingredients of LARVANEM do not raise concern for environment.
- ♦ **Disposal of product:** Dispose of waste product in accordance with local regulations, e. g. convey to a licensed incinerator.
- ♦ **Packaging not cleaned:** Make container unsuitable for further use, then dispose of container in accordance with provincial requirements.

### 14. TRANSPORTATION INFORMATION

- ♦ **Transport information:** Not classified in regard to transportation by ADR/RID, IMDG, IMO and IATA.

### 15. REGULATORY INFORMATION

- ♦ **CFIA Import Permit Number:** P-2016-00966
- ♦ **Risk phrases:** None.
- ♦ **Supplementary regulations, restrictions and prohibitions:** Not applicable.
- ♦ **WHMIS Classification:** This product is registered for importation under the *Plant Protection Act and Regulations* and is exempt from the requirements of WHMIS.

### 16. OTHER INFORMATION

**Prepared by Koppert Canada Limited (Section 1)**  
**Date: July 6<sup>th</sup>, 2016**

- ♦ Recommendations presented in this safety information sheet apply only to the product as originally supplied. If other ingredients are used in the processing of this product, the recommendations for the use and handling of that product must be verified.
- ♦ This document contains important information in order to ensure the safe storage, handling and use of this product. The information in this document must be brought to the attention of the safety/health/environmental advisor within your organisation. The information in this document must be made known to everyone whose work involves this product.
- ♦ The data is based on current expertise and presents the health, safety and environmental aspects of this product. They form no guarantee of product properties.