

# Material Safety Data Sheet

## Section 1. Product and Company Identification

**Product Name:** Nemasys  
**Product Use:** Biological Control of Fungus Gnats and Western Flower Thrips  
**Product Code:** MBL/NEMASYS

**Manufacturer Information:** Becker Underwood, Inc.  
 Harwood Industrial Estate  
 Harwood Road, Littlehampton BN17 7AU UK  
 Information Phone: (515) 232-5907  
 Emergency Phone: Chemtrec (800) 424-9300

### Hazardous Material Information:

Health	0
Flammability	0
Physical Hazard	0
Personal Protection	A

## Section 2. Ingredients and Hazards Identification

This product is not considered dangerous and therefore does not require a Material Safety Data Sheet. The information provided is for information only.

Hazardous Components		Occupational Exposure Limits		
Component	CAS Number	OSHA PEL	ACGIH TLV	Weight Percent
<i>Steinernema feltiae</i> paste (active)	NA	NA	NA	90%
Inert carrier	NA	NA	NA	10%
***No reportable quantities of hazardous ingredients are present***				
***No reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present***				

**Emergency Overview:** This product is not considered to be a hazardous substance as defined under OSHA's Hazard Communication standard (29 CFR 1910.1200). It is not classified according to relevant EEC Directives  
 Primary routes of entry: Eyes, oral

### Potential Acute Health Effects:

- Eyes:* Short term harmful effects are not expected. However, irritation may develop causing itching and redness.
- Skin:* Short term harmful effects are not expected. However, mild skin irritation may develop.
- Inhalation:* This product is in a paste form. Inhalation is not expected.
- Ingestion:* Not an intended route of exposure. Short term harmful effects are not expected. However, may upset the gastrointestinal tract.

## Section 3. Composition/Information on Ingredients

The composition of this material is a trade secret. Contains no other components or impurities which will influence the classification with regard to human and environmental risk assessment.

## Section 4. First Aid Measures

<b>Eye Contact:</b>	Wash out eyes with water.
<b>Skin Contact:</b>	Wash affected area with of soap and water.
<b>Inhalation:</b>	Not applicable.
<b>Ingestion:</b>	May upset the gastrointestinal tract.

## Section 5. Fire Fighting Measures

<b>Flammability of Product:</b>	Not a fire or explosion hazard when stored under normal conditions.
<b>Fire Fighting Media:</b>	Foam, alcohol foam, CO2, dry chemical, water fog.
<b>Protective Clothing:</b>	No special procedures required besides standard fire fighting procedures.

## Section 6. Accidental Release Measures

<b>Clean-Up Procedures:</b>	Vacuum or use wet clean-up techniques. Spilled product in contact with water or moisture may expand and can cause surfaces to become slippery. Dispose of collected material according to federal, state/provincial and local environmental regulations.
<b>Spills:</b>	Contain spill using standard cleaning equipment. There are no concerns if accidentally spilled in the environment, however, susceptible insect population may decrease in areas receiving a high dose.

## Section 7. Handling and Storage

<b>Handling:</b>	Upon delivery from mail carrier, immediately place nematode trays in a refrigerator. Nematodes should never be stored at ambient temperatures. Mixed suspensions should be used within 2-4 hours after adding water to nematode trays. Nematode solutions should be constantly agitated to prevent settling. Keep mixed suspensions out of direct sunlight and prevent solutions from heating prior to application.
<b>Storage:</b>	Keep containers in a dry refrigerator set at around 5 °C/40 °F. DO NOT FREEZE. Keep out of sunlight. Keep containers sealed until ready for use. Do not store opened trays, always use the entire package once opened.

## Section 8. Exposure Control/Personal Protection

<b>Engineering controls:</b>	General mechanical ventilation is not needed for normal use of the product.
<b>Personal Protection:</b>	
<i>Eyes:</i>	No special equipment is required, however, safety glasses can be worn if necessary.
<i>Body:</i>	No special equipment is required
<i>Hands:</i>	No special equipment is required, however, gloves can be worn if necessary.
<i>Respiratory:</i>	No respiratory protection required under normal conditions of use.

## Section 9. Physical and Chemical Properties

<b>Odor</b>	Earthy odor	<b>Vapor Density</b>	NA
<b>Color</b>	Pale brown/tan	<b>Evaporation Rate</b>	NA
<b>Physical state</b>	Moist paste	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	NA
<b>pH</b>	NA	<b>Solubility</b>	Water dispersible
<b>Melting/Freezing Point</b>	NA		

## Section 10. Stability and Reactivity

**Chemical Stability:** This material is stable under refrigeration. Use before expiration date.  
**Hazardous Decomposition:** Thermal decomposition may yield carbon dioxide and carbon monoxide.  
**Hazardous Polymerization:** Will not occur.  
**Incompatibility (Materials to Avoid):** Active ingredient is a living organism. Do not expose to heat, excessive cold or sunlight. It's recommended to mix nematodes with cool, clean water separately from chemicals; however, some chemicals are tank mix compatible. Check compatibility of all tank mixed chemicals and chemicals that were applied 14 days before or after a nematode application.

## Section 11. Toxicological Information

**Chronic Toxicity:** None  
**Mutagenic Effects:** None  
**Teratogenic Effects:** None  
**Developmental Toxicity:** None  
**Acute Effects on Humans:** This product is not considered to be a hazardous substance as defined under OSHA's Hazard Communication standard (29 CFR 1910.1200).  
**Sensitization:** Exposure may cause eye or skin irritation.  
**Carcinogenic Effects:** This material will not cause cancer in animals or humans.

## Section 12. Ecological Information

**Ecotoxicity:** No data available, however the material is not expected to have any deleterious toxic effect.  
**Environmental Fate:** No data available regarding the environmental fate or biodegradation.

## Section 13. Disposal Considerations

**EPA Waste Number:** Non-hazardous waste  
**Treatment:** Dispose of according to all federal, state/provincial and local environmental regulations.

## Section 14. Transport Information

**D.O.T. Classification:** Not regulated  
**IMO/IMDG** Not regulated  
**Classification:**  
**IATA Classification:** Not regulated

## Section 15. Regulatory Information

### US Federal Regulations:

<b>TSCA Toxic Substances Control Act</b>	All ingredients are listed or exempt from the requirement.
<b>SARA Superfund Amendment and Reauthorization Act</b>	
<b>EPCRA Emergency Planning &amp; Community Right-to-Know Act</b>	
Section 302 Extremely Hazardous Substances	None of the chemicals in this product are listed.
Section 311 and 312 Hazards	<i>Acute:</i> No <i>Chronic:</i> No <i>Fire:</i> No <i>Pressure:</i> No <i>Reactive:</i> No
Section 313 Toxic Chemical Release Inventory	No reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present
<b>CERCLA Hazardous substances</b>	None of the chemicals in this product have an RQ.
<b>Clean Air Act</b>	This material does not contain any hazardous air pollutants, nor any Class 1, 2 ozone depleters.
<b>Clean Water Act</b>	None of the chemicals in this product are listed as Hazardous Substances, Priority or Toxic Pollutants under the CWA.
<b>California Proposition 65 Carcinogens &amp; Reproductive Toxicity (CRT) List:</b>	No ingredients in this product are listed
<b>OSHA Regulatory Status:</b>	This product is not considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

## Section 16. Other Information

Revision:	2
Effective Date:	March 7, 2011
Supersedes:	February 29, 08
Created By:	Julie Graesch

### Hazardous Material Information System:

<b>Health</b>	0
<b>Flammability</b>	0
<b>Physical Hazard</b>	0
Personal Protection	A

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