

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: NEMASYS
Product Use: Biological control of sciarid fly/fungus gnat, western flower thrip and leaf miner in glasshouse horticultural production systems.
Product Code: MBL/NEMASYS
Effective Date: February 26, 2008

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 System III:

Health	1
Fire Hazard	0
Physical Hazard	0
Personal Protection	X

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%
Exposure limit: 0.05mg.in ³ for dust (not formed during normal use)				
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

Eye Contact:	Wash out with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
Skin Contact:	Wash affected area with plenty of soap and water.
Inhalation:	Not applicable
Ingestion:	Seek medical attention if irritation develops.

Section 5. Fire Fighting Measures

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

Section 6. Accidental Release Measures

Clean-Up Procedures:	Vacuum or use wet clean-up techniques and place in properly labeled and closed container. Spilled product in contact with water or moisture causes surfaces to become extremely slippery. Dispose of collected material according to federal, state/provincial and local environmental regulations.
Spills:	Contain the spill to prevent discharges to surface streams or storm sewers.

Section 7. Handling and Storage

Handling:	General mechanical ventilation can be expected to effectively remove and prevent build up of any particulates generated from handling this product in a closed environment. Protect eyes to prevent contact. Avoid prolonged or repeated exposure to skin.
Storage:	Keep container in a dry place inaccessible to children and pets at temperatures above freezing. Store at 5°C/40°F. Keep out of sunlight. Keep containers sealed until ready for use.

Section 8. Exposure Control/Personal Protection

Engineering controls:	General mechanical ventilation can be expected to effectively remove and prevent build up of any particulates generated from handling this product in a closed environment.
Personal Protection:	
<i>Eyes:</i>	Wear safety glasses. Have an eye wash station available.
<i>Body:</i>	To prevent skin contact wear coveralls, apron, boots, or lab coat.
<i>Hands:</i>	Avoid skin contact by using gloves.
<i>Respiratory:</i>	No respiratory protection required under normal conditions of use.
Other:	Open wounds or skin surface disruptions should be covered with a chemical resistant patch to minimize exposure risks. Clean clothing should be worn daily to avoid possible long-term build up of the product leading to overexposure.

Section 9. Physical and Chemical Properties

Odor	Perceptible odor	Vapor Density	NA
Color	Pale brown	Evaporation Rate	NA
Physical state	Moist gel/paste	Specific Gravity (H₂O = 1)	NA
pH	NA	Solubility	Water dispersible
Melting/Freezing Point	NA		

Section 10. Stability and Reactivity

Chemical Stability: This material is chemically stable under normal storage and handling conditions.
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 or excessive cold or sunlight. Only mix with water. Avoid pesticides and biocides.

Section 11. Toxicological Information

Chronic Toxicity: None known
Mutagenic Effects: None known
Teratogenic Effects: None known
Developmental Toxicity: None known

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: Repeated or prolonged exposure to the substance at concentration above the exposure limits may cause eye and 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: Vacuum preferred but simpler methods are acceptable. 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

Hazardous Material Information System III:

Health	1
Fire Hazard	0
Physical Hazard	0
Personal Protection	X

US Federal Regulations:

Product Information: This product is not considered hazardous.

SARA 311/312:

Acute: No
Chronic: No
Fire: No
Pressure: No
Reactive: No

SARA 313: 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.

Regulatory Listings:

United States (TSCA): Listed

The product does not need to be labeled in accordance with EC Directives or respective to National Laws

Section 16. Other Information

The information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Becker Underwood's knowledge. Because use conditions and applicable laws may differ from one location to another and may change with time, Recipient is responsible for determining whether the information is appropriate for recipient's use. Since Becker Underwood has no control over how this information may be ultimately used, all liability is expressly disclaimed and Becker Underwood assumes no liability.