

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION

GENERAL USE: Biological Insecticide

COMMON NAME: NemaShield HB

MANUFACTURED FOR:

EMERGENCY TELEPHONE NUMBER:

BioWorks, Inc.
100 Rawson Rd, Suite 205
Victor, NY 14564

BioWorks, Inc: 800-877-9443
CHEMTREC: 800-424-9300

2. COMPOSITION, INFORMATION ON INGREDIENTS

DESCRIPTION: Formulation of larvae of the insect parasitic nematode *Heterorhabditis bacteriophora* (50 or 500 million) with inert carrier

COMPONENTS: Nematode larvae, inert carrier

ADDITIONAL INFORMATION: Contains no hazardous chemical substances present on Annex I of Directive 67/548/EC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: None expected, see section II

CHRONIC: No known effects.

CARCINOGENICITY: The ingredients in this product are not listed by NTP, OSHA, or IARC as a carcinogen.

ADDITIONAL INFORMATION: *H. bacteriophora* can be found as living organism in the environment.

4. EMERGENCY AND FIRST AID MEASURES

INHALATION: Supply fresh air. Keep patient warm. Consult doctor if symptoms persist.

SKIN CONTACT: Wash with water and soap and rinse thoroughly. Get medical attention if irritation develops and persists.

EYE CONTACT: Rinse opened eye for several minutes (~15 min.) under running water. If symptoms persist, consult doctor.

INGESTION: In case of persistent symptoms consult a doctor.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable.

AUTOIGNITION TEMPERATURE: Not determined

EXTINGUISHING MEDIA: Not combustible.

SPECIAL FIRE-FIGHTING PROCEDURES: Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus and full protective equipment.

UNUSUAL FIRE and EXPLOSION HAZARDS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None

6. ACCIDENTAL RELEASE MEASURES

GENERAL: Take all additional action necessary to prevent and remedy the adverse effects of the spill. This product should be prevented from entering bodies of water.

SPECIFIC: In case of spill, collect material immediately. Wipe residual material from surfaces with cloth. Do not wash residues into drains or other waterways.

7. HANDLING and STORAGE

Prevent formation of dust. Keep away from heat and direct sunlight.

Store in original container under refrigerated conditions, (36-43F) Do not freeze. Do not store near food or feed commodities. Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with skin and eyes. Keep container tightly closed.

PERSONAL PROTECTION:

RESPIRATORY: Do not inhale dust.

OTHER: Wash thoroughly with soap and water after handling.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: grey powder

VAPOR PRESSURE: Not applicable

SPECIFIC GRAVITY: Data not available

SOLUBILITY in water: 99%

ODOR: earthy odor

MELTING POINT: Not applicable

BOILING POINT: Not applicable

VISCOSITY: Not determined

Ph(10g/l at 20C) 7.5-8.0

10. STABILITY and REACTIVITY

STABILITY: Stable under normal recommended storage and handling conditions. (see section 7)

INCOMPATIBILITY: Oxidizing agents

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION:
Will not occur.

11. TOXICOLOGICAL INFORMATION

Active ingredient is practically non-toxic, non-allergenic and non-pathogenic to mammals. Pre-existing medical conditions should not be aggravated by exposure.

12. ECOLOGICAL INFORMATION

FISH TOXICITY: No data available.

DAPHNIA MAGNA TOXICITY: No data available.

ALGAE: No data available

OTHER: *Heterorhabditis* spp. are nematodes restricted to soil and parasitic to subterranean Coleoptera, Diptera, Lepidoptera and Orthoptera.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Do not contaminate food or feed by disposal. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Dispose of empty packaging in a sanitary landfill or by incineration.

14. TRANSPORT INFORMATION (not meant to be all inclusive)

D.O.T.- Land, air and sea

PROPER SHIPPING NAME: Not regulated

15. REGULATORY INFORMATION (not meant to be all inclusive)

UNITED STATES

SARA Hazard Class: [] Acute [] Chronic [] Flammable [] Pressure [] Reactive
[X] None

SARA 313 [] Yes [X] No, Chemical

SARA 302 [] Yes [No], Chemical

CERCLA: [] Yes [No], Chemical

RQ: none

RCRA: [] Yes [No]

NFPA Hazard Rating:

NFPA Hazard Rating Scale:

Health: [0]

0 = Minimal

3 = Serious

Fire: [0]

1 = Slight

4 = Severe

Reactivity: [0]

2 = Moderate

Special: [0]

HMIS Codes:

HMIS Hazard Rating Scale:

Health: [0]

0 = Minimal

3 = Serious

Fire: [0]

1 = Slight

4 = Severe

Reactivity: [0]

2 = Moderate

16. OTHER INFORMATION

MSDS SUMMARY: MSDS created November 14, 2008

CONTACT: BioWorks, Inc.

TELEPHONE: 800-877-9443

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Victor, NY 14564

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