

according to regulation Nr. 1907/2006/EG
(amended by regulation regulation
Nr. 453/2010/EG)

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Bionema Limited, Swansea University,
Singleton Park, Swansea, SA2 8PP

1. Identification of the substance/mixture and of the company

1.1 Product identifier

Substance /Trade name:

Heterorhabditis bacteriophora

EG-No.: not applicable for living organisms

CAS-No.: not applicable for living organisms

Other means of identification:

Entomopathogenic nematode

1.2 Relevant identified uses of the substance or mixture and uses advised against

Biological plant protection agent, insecticide

1.3 Details of the supplier of the safety data sheet

Bionema Limited

Address: Bionema Ltd., Institute of Life Science 1,
Swansea University, Singleton Park, Swansea, SA2 8PP

Contact for technical information:

Dr Minshad Ansari

Phone / Fax / E-Mail:

+44 (0)1792 606 916

info@bionema.com

1.4 Emergency contact

The product doesn't contain any harmful substances

2. Hazards identification

2.1 Classification of the substance or mixture

According regulation Nr. 1272/2008/EG:

None

According directives 67/548/EG and 1999/45/EG:

None

According directive 1907/2006/EG:

None

3. Composition/information on ingredients

3.1 Substances

Active ingredient

Name:

Heterorhabditis bacteriophora (living organism,
entomopathogenic nematode)

EG-Nr.: Not available for living organisms

CAS-Nr.: Not available for living organisms

Stabilisers, hazard impurities:

Contains no admixtures with labelling obligation

3.2 Mixtures

Not a mixture of active ingredients

4. First aid measures

4.1 Description of first aid measures

Following inhalation:

Only in case of massive inhalation:

Move the affected person outside the danger zone.

Contact a doctor.

Following skin contact:

Clean with water and soap.

Following eye contact:

Flush eye for 10 minutes with water. In case of persistent
eye irritation contact a doctor.

Following ingestion:

Flush mouth with water several times and spit it out.

Drink two cups of water afterwards. No further aid
measures are necessary.

4.2 Most important symptoms and effects, both acute and delayed

Irritation of the respiratory system and eyes.

4.3 Indication of any immediate medical attention and special treatment needed

None

5. Fire-fighting measures

5.1 Extinguishing media:

All fire extinguishing media are appropriate.

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for fire-fighters :

No special advises

6. Accidental release measure

6.1 Personal precautions, protective equipment and emergency procedures:

None

6.2 Environmental precautions:

None

6.3 Methods and material for containment and cleaning up:

Wear dust mask, eye protection, gloves. Clean
contaminated area mechanical and/or with water.

6.4 Reference to other sections:

13. Disposal consideration

7. Handling and storage

7.1 Precautions for safe handling

Protective measures:

Don't eat or drink when handling the product.

Advice on general occupational hygiene:

Wash hands after handling the product.

Advice on safe handling:

Wear dusk mask, eye protection, gloves.

Fire preventions:

None

Aerosol and dust generation preventions:

None

Environmental precautions:

None

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures and storage conditions:

Store in the dark at 4-10°C. Don't freeze.

Don't expose to sunlight.

Hints on storage assembly:

None. Opened bags should be used up.

Storage class:

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7.3 Specific end uses

None

8. Exposure controls/personal protection

8.1 Control parameters:

None

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Not applicable

8.2.2 Personal protective equipment:

Eyes / face:

Protective glasses

Skin protection:

Gloves

Respiratory protection:

Dust mask

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Powder
- Physical state:	
- Colour:	Ochre
Odor:	Wet clay
Odour threshold:	Unknown
Density:	Unknown
pH:	7-8 (100 g/l water, 20°C)
Oxidising compounds:	None
Freezing point:	0°C/-1°C (product contains water)
Boiling point:	100 °C (product contains water)
Flashpoint:	Unknown
Ignition temperature	Unknown
Explosive compounds:	None
Vapour pressure, density:	Not applicable
Solubility n-octanol/water:	Not applicable
Viscosity:	Not applicable

9.2 Other safety information

None

10. Chemical stability and reactivity

Not applicable

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Not toxic, > 5g/kg (Maus, oral)

Skin corrosion/irritation:

None

Serious eye damage/irritation:

None

Irritation to respiratory tract:

Unknown

Carcinogenicity/mutagenicity:

Not applicable

12. Ecological information

12.1 Toxicity for non-target organisms

Not toxic or pathogenic against birds, reptiles, amphibians, fish, bees or earthworms. Side-effects are limited to soil born insects.

12.2 Persistence and degradability:

Not applicable

12.3 Bioaccumulative potential:

Not applicable

12.4 Mobility in the soil:

Not applicable

12.5 Results of PBT and vPvB assessment:

Not applicable

12.6 Other adverse effect:

Unknown

13. Disposal consideration

13.1 Waste treatment methods:

Product /Packaging disposal:

General trash / packaging waste

Waste codes / waste designations

according to EWC /AVV:

16 03 04, 16 03 06

14. Transport information

14.1-3 UN-numbers (land, sea, air)

No hazardous material as defined

in the transportation directives

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR:

None

Marine Pollutant:

No

Packing group:

None

14.4 Transport in bulk according to Annex II of MARPOL 7 3/78 and the IBC Code:

No hazardous material as defined

in the transportation directives