

Safety data sheet **nema-green**[®] according to regulation Nr. 1907/2006/EG (amended by regulation Nr. 453/2010/EG)

Created: 17.12.2014
Reviewed: 27.03.2018
Valid from: 27.03.2018
Version: 3

Replacing Version: 2

e-nema GmbH, Klausdorfer Str. 28-36, 24223 Schwentinental, Germany



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

1.1 Product identifier

Substance /Trade name: *Heterorhabditis bacteriophora* / **nema-green**[®]

EG-No.: not applicable for living organisms

CAS-No.: not applicable for living organisms

Other means of identification: Entomopathogenic nematode

1.2 Use

Biological plant protection agent, insecticide

1.3 Details of the supplier of the safety data sheet

e-nema GmbH

Street name

Klausdorfer Str. 28-36

Postal code/town name

24223 Schwentinental

Contact for technical information

Dr. Olaf Strauch, e-nema GmbH, Klausdorfer Str. 28-36, 24223 Schwentinental

Phone / Fax / E-Mail

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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

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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 dusk mask, eye protection, clothes. Clean contaminated area mechanical and/or with water.

6.4 Reference to other sections

13. Disposal consideration

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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, cloves.

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: 13

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

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8.2.2 Personal protective equipment

Eyes / face

Protective glasses

Skinprotection

Cloves

Respiratory protection

Dusk mask

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|-----------------------------|-----------------------------------|
| Appearance | |
| - Physical state: | Powder |
| - 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

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11.1 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

> 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 for 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