

Safety data sheet dianem®

Created: 29.10.2013
Reviewed: 04.05.2017
Valid from: 04.05.2017
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

Product identifier

Substance /Trade name: *Heterorhabditis bacteriophora* / dianem®

Other means of identification:

Living organisms, entomopathogenic nematode

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

Biological plant protection agent, insecticide

Details of the supplier of the safety data sheet

Company: e-nema GmbH
Street name: Klausdorfer Str. 28-36
Postal code/town name: 24223 Schwentinental
Country: Germany

Contact for technical information

Dr. Olaf Strauch, e-nema GmbH, Klausdorfer Str. 28-36, 24223 Schwentinental
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| Hazardous Material Information System III | |
|---|---|
| Health | 1 |
| Fire Hazard | 0 |
| Physical Hazard | 0 |
| Personal Protection | X |

2. Hazards identification

| Components | CAS No. | Weight Percent | Occupational Exposure Limits | |
|--------------------------------------|---------|----------------|------------------------------|-----------|
| | | | OSHA PEL | ACGIH TLV |
| <i>Heterorhabditis bacteriophora</i> | NA | 10 % | NA | NA |
| Inert carrier | NA | 90 % | NA | NA |

Primary routes of entry: eyes, oral

Exposure limit for dust (not formed during normal use): 0.06 µg/in³

No reportable quantities of toxic ingredients according to Section 313 SARA Title III and 40 CFR 372

No hazardous substances according to OSHA Hazard Communication Standard 29 CFR 1910.1200.

Not classified according EEC Directives

Potential Acute Health Effects

Eyes: Irritation, itching, redness

Skin: Mild skin irritation

Inhalation: Respiratory system irritation (The formulation is free of dust. No inhalation expected.)

Ingestion: No effects

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3. Composition/information on ingredients

Substances

Active ingredient:

Name: *Heterorhabditis bacteriophora* (living organism, entomopathogen nematode)
CAS-Nr.: Not available for living organisms

Inert carriers:

Contains no admixtures with labelling obligation. The formulation is confidential.

Mixtures

Not a mixture of active ingredients

4. 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.

5. Fire-fighting measures

Flammability

Flame resistant, not explosive

Extinguishing media

All fire extinguishing media are appropriate.

6. Accidental release measure

Personal precautions, protective equipment and emergency procedures

None

Environmental precautions

None

Methods and material for containment and cleaning up

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

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7. Handling and storage

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

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

Opened bags should be used up.

Storage class: 13

8. Exposure controls/personal protection

Control parameters

None

Personal protective equipment

Eyes / face

Protective glasses

Skinprotection

Cloves

Respiratory protection

Dusk mask

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

10. Chemical stability and reactivity

Not applicable, contains living organisms

11.1 Toxicological information

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

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.

Persistence and degradability

Not applicable

Bioaccumulative potential

Not applicable

Mobility in the soil

Not applicable

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Other adverse effect

Unknown

13. Disposal consideration

EPA Waste Number: Non-hazardous waste

Product /Packaging disposal

Vacuum or manual, general trash / packaging waste

14. Transport information

D.O.T. Classification: Not regulated

INO/IMDG: Not regulated

IATA: Not regulated

1 5. Regulatory Information

US Federal Regulations

Product information The product in not considered hazardous

SARA 311/312

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

SARA 313 No reportable quantities of toxic substances according requirements
Of Section 313 of SARA III and 40 CFR 372

TSCA listing Exempted