

**Safety data sheet dianem<sup>®</sup>** according to regulation Nr. 1907/2006/EG  
(amended by regulation 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* /dianem<sup>®</sup>

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**

+49 4307-8295-0 / +49 4307-8295-14 / info@e-nema.de

**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

**Safety data sheet dianem<sup>®</sup>** according to regulation Nr. 1907/2006/EG  
(amended by regulation 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



#### **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

---

**Safety data sheet dianem<sup>®</sup>** according to regulation Nr. 1907/2006/EG  
(amended by regulation 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



## **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

---

**Safety data sheet dianem<sup>®</sup>** according to regulation Nr. 1907/2006/EG  
(amended by regulation 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



## 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

---

**Safety data sheet dianem<sup>®</sup>** according to regulation Nr. 1907/2006/EG  
(amended by regulation 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



## **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