

# Safety data sheet **nematop**<sup>®</sup>

Created: 29.10.2013  
Reviewed:  
Valid from: 29.10.2013  
Version: 1 Replacing Version:  
e-nema GmbH, Klausdorfer Str. 28-36, 24235 Schwentinental, Germany



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

### Product identifier

Substance: *Heterorhabditis bacteriophora*

Trade name: nematop<sup>®</sup>

### 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

### Contact for technical information

Dr. Olaf Strauch, e-nema GmbH, Klausdorfer Str. 28-36, 24223 Schwentinental  
Phone / Fax / E-Mail: ..49-4307-8295-222 / ..49-4307-8295-14 / [o.strauch@e-nema.de](mailto:o.strauch@e-nema.de)

Hazardous Material Information System III	
Health	1
Fire Hazard	0
Physical Hazard	0
Personal Protection	X

## 2. Hazards identification

Components	CAS no.	Content	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/in<sup>3</sup>

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

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## 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.

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## 5. Fire-fighting measures

### Flammability

Flame resistant, not explosive

### Extinguishing media

All fire extinguishing media are appropriate.

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## 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

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## 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

Physical state: Powder  
Colour: Ochre  
Odor: Wet clay  
  
pH: 7-8 (100 g/L) water, 20°C  
Oxidising compounds: None  
Freezing point: 0 °C  
Boiling point: 100 °C  
  
Solubility n-octanol/water: NA  
Explosive compounds: None  
Vapour pressure: NA

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## 10. Chemical stability and reactivity

Not applicable, contains living organisms

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## 11. Toxicological information

### **Acute toxicity**

Not toxic or pathogenic to mice (oral, subcutan, intraperitoneal)

### **Skin corrosion/irritation**

None

### **Serious eye damage/irritation**

None

### **Irritation to respiratory tract**

Unknown

### **Carcinogenicity/mutagenicity**

Not applicable

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## 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

### **Other adverse effect**

Unknown

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## 13. Disposal consideration

**EPA Waste Number:** Non-hazardous waste

### **Product /Packaging disposal**

Vacuum or manual, general trash / packaging waste

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## 14. Transport information

**D.O.T. Classification:** Not regulated  
**INO/IMDG:** Not regulated  
**IATA:** Not regulated

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## 15. Regulatory Information

### US Federal Regulations

#### **Product information**

The product is 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 to requirements of Section 313 of SARA III and 40 CFR 372

#### **TSCA listing**

Exempted