

## SAFETY DATA SHEET

according to regulation (EC) No. 1907/2006

Revision Date: April 2022



## NEMGUARD DE

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade Name	NEMGUARD DE
Product Code	NEMDE
REACH No.	A registration number is not available for this substance as the substance or its uses are exempted from registration.
CAS-No.	8008-99-9 and 8000-78-0

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

Use of substance/ Mixture	Nematicide
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#### 1.3 Details of the supplier of the safety data sheet Supplier

Ecospray Limited  
Unit 6C, Park farm business centre  
Fornham St. Geneive  
Bury St. Edmunds, IP28 6TS  
Norfolk, UK  
Telephone: +44 (0) 1760751389  
Email: [enquiries@ecospray.com](mailto:enquiries@ecospray.com)

#### 1.4 Emergency Telephone Number

+44 (0) 1760751389 (Mon-Fri 9am-5pm UK only)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification in accordance with Regulation (EC) No 1272/2008

No classification

#### 2.2 Label elements

Labelling according to regulation (EC) 1272/2008

Pictogram



Signal word

WARNING

Hazard statement(s)

EUH401

To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statement(s)

P102

P102- Keep out of reach of children.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

P233

Keep container tightly closed.

P301 + P312

If swallowed: contact a physician.

P302 + 352

If on skin (or hair): Take off immediately all contaminated clothing. Wash with plenty of soap and water.

P332 + 313

If irritation occurs, get medical advice.

P501

P501- Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste

2.3 Other hazards

This substance/ mixture contains no components considered to be either persistent, bio-accumulative (vPvB) at levels of 0.1% or higher. No other hazards known.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

CAS-No.

8008-99-9, 8000-78-0

EC-No.

232-371-1

Component	Classification	Concentration
<b>Garlic extract</b>		
CAS-No. 8008-99-9 8000-78-0	No classification	<=45%
EC-No. 232-371-1		

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

### General advice

Show this material safety data sheet to the doctor in attendance.

Inhalation	Move to fresh air.
Skin contact	Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.
Eye contact	Remove contact lens and rinse eyes immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	DO NOT induce vomiting unless directed to do so by a physician. Rinse out mouth and give water in small sips to drink (1-2 glasses).

**4.2 Most important symptoms and effects, both acute and delayed Symptoms**  
The most important known symptoms and effects are described in the labelling (see section 2.2 and/ or in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**  
See section 2.2.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable	Use water spray, dry powder or carbon dioxide.
Unsuitable	High volume water jet (contamination risk).

### 5.2 Special hazards arising from the substance or mixture

Development of hazardous combustion gases or vapours possible in the event of fire.

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### Further information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Prevent skin contact and wear suitable protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
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### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Sweep up with liquid absorbent material. Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling**  
 Advice on protection against fire and explosion No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Avoid dust formation. Ensure adequate ventilation. No special precautions required.  
 Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.  
 For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**  
 Requirements for storage areas and containers Store in original container and out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight.
- 7.3 Specific end use(s)**  
 no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**  
**Ingredients with workplace control parameters**  
 Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls**  
**Personal protective equipment**  
**Engineering measures** Ensure adequate ventilation, especially in confined areas.  
**Eye/ face protection** Wear goggles (conforming to EN166, Field of Use= 5 or equivalent).  
**Hand protection** Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0.4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.  
**Skin and body protection** Wear standard coveralls and Category 3 Type 5 suit.  
**Respiratory protection** Wear respirator conforming to European norm EN140 and EN14387 or equivalent. Recommended filter type FFP1.  
 Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.  
**Control of environmental exposure** Do not let product enter drains

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical

Appearance	Dark Brown granules
Odour	Garlic
Odour threshold	Strong
pH	5.5- 5.9 (CIPAC MT 75.3)
Melting point/Freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	Non-flammable (EEC A9)
Evaporation rate	Not applicable
Flammability (Solid, gas)	Non-flammable (EEC A10)
Upper/lower flammability or explosive limits	Non-flammable
Vapour pressure	Not applicable
Vapour density	Not applicable
Density	0.78 (CIPAC MT 186)
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol/water	-1.49 (20 °C)
Auto-ignition temperature	Does not ignite
Decomposition temperature	Not available
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidising properties	Not oxidising

### 9.2 Other information

Further safety related physical-chemical data are not known.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Store only in the original container.

### 10.6 Hazardous decomposition products

No decomposition products expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute oral toxicity	Not classified
Acute inhalation toxicity	Not classified
Acute dermal toxicity	Not classified
Skin corrosion/ Irritation	No skin irritation (Rabbit)
Eye irritation	No eye irritation (Rabbit)
Sensitisation	Mild sensitising (Mice)
Repeated dose toxicity	Not classified
Mutagenicity assessment	Garlic extract is not considered mutagenic
Carcinogenicity assessment	Garlic extract is not considered carcinogenic
Toxicity to reproductive assessment	Garlic extract is not considered a reproductive toxicant at non-maternally toxic dose level
Developmental toxicity assessment	Garlic extract is not considered a developmental toxicant
STOT- single exposure	Garlic extract is not considered as toxic to specific organs
STOT-repeated exposure	Garlic extract is not considered as toxic to specific organs

## 11.2 Additional information

No other additional information available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish	EC <sub>50</sub> (Carp) 11.65mg a.s./l, Exposure time: 96 h
Toxicity to aquatic invertebrates	EC <sub>50</sub> (Daphnia) 13.69 mg a.s./l Exposure time: 48 h
Toxicity to aquatic plants	E <sub>r</sub> C <sub>50</sub> (Algae) 19.22 mg a.s./l, Exposure time: 72 h

### 12.2 Persistence and degradability

Not persistent and degradable quickly due to short half life

### 12.3 Bio-accumulative potential

Does not bio-accumulate

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bio accumulative and toxic (PBT). This substance is not considered to be very persistent and very bio accumulative (vPvB).

### 12.6 Other adverse effects

Additional ecological information No other effects to be mentioned. The above values are calculated in accordance with Regulation (EC) 1272/2008.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product	Do not empty into drains. Disposed of unused product according to national regulation.
Contaminated packaging	Do not re-use empty containers.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 According to ADN/ADR/UK 'Carriage' Regulations/RID/IMDG/IATA not classified as dangerous goods.

This classification is in principle not valid for carriage by tank vessel on inland waterways.

- Please refer to the manufacturer for further information.
- 14.6 Special precautions for user**  
See sections 6 to 8 of this Safety Data Sheet.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable.

## SECTION 15: REGULATORY INFORMATION

- This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.
- REACH candidate list of substances of very high concern (SVHC) for authorisation**  
According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.
- Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**  
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subject to restriction as listed in Annex XVII of the REACH regulation (EC) 1907/2006.
- Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**  
This product is not subject to Part 1 or 2 of Annex I.
- 15.2 Chemical Safety Assessment**  
A chemical safety assessment is not required

## SECTION 16: OTHER INFORMATION

*No responsibility can be accepted for Health and Safety requirements of the place of work. No responsibility can be accepted for any breach of pesticide regulations by users. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.*