

SAFETY DATA SHEET

according to regulation (EC) No. 1907/2006

Revision Date: March 2023



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. 8000-78-0 and 8008-99-9
- 1.2 Relevant identified uses of the substance or mixture and uses advised against use**
Use of substance/ Mixture Nematicide
- 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
- 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**
Not a hazardous substance or mixture
- 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.

8000-78-0, 8008-99-9

EC-No.

232-371-1

Component	Classification	Concentration
Garlic extract		
CAS-No. 8000-78-0 8008-99-9	Skin Sens. (Cat. 1B) H317	<=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 dust, 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.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up with appropriate equipment. 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 vapour 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 with a filter mask (class 2) conforming to European norm EN140 and EN14387 or equivalent. Recommended filter type ABEK.

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. Do not let product enter drains

Control of environmental exposure

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical	
Property	Value
a. Physical state	Solid
b. Colour	Brick red to dark brown
c. Odour/ Odour threshold	Garlic/ strong
d. Melting point/Freezing point	Not applicable
e. Initial boiling point and boiling range	Not applicable
f. Flammability (Solid, gas)	Non-flammable (EEC A10)
g. Lower and upper explosion limit	Not explosive
h. Flash point	No flashpoint (EEC A9)
i. Auto-ignition temperature	Does not ignite (EEC A15)
j. Decomposition temperature	Not available
k. pH	5- 6, at 20°C (CIPAC MT 75.3)
l. Kinematic Viscosity	Not applicable
m. Solubility	Not soluble in water
n. Partition coefficient: n-octanol/water	Not applicable
o. Vapour pressure	Not applicable
p. Bulk density	0.75-0.80 g/cm ³ , at 20°C (EEC A3)
q. Relative vapour density	Not applicable
r. Particle characteristics	1-1.5mm

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	
	a. Acute toxicity	
	Acute oral toxicity	Not classified
	Acute inhalation toxicity	Not classified
	Acute dermal toxicity	Not classified
	b. Skin corrosion/ Irritation	Not skin irritant (Rabbit), OECD 404
	c. Serious Eye damage/ irritation	Not eye irritant (Rabbit), OECD 405
	d. Respiratory or sensitisation	Not sensitising (Mice), OECD 429
	e. Germ cell mutagenicity	Not classified
	f. Carcinogenicity	Not considered carcinogenic (literature)
	g. Reproductive toxicity	Not considered a reproductive toxicant (literature)
	h. STOT- single exposure	Not considered as toxic to specific organs (literature)
	i. STOT-repeated exposure	Not considered as toxic to specific organs (literature)
	j. Aspiration hazard	No aspiration hazard expected
11.2	Additional information	No other additional information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	
	Toxicity to fish	LC ₅₀ 11.65mg a.s./l (Carp, 96 h), OECD 203
	Toxicity to aquatic invertebrates	EC ₅₀ 13.69 mg a.s./l (Daphnia, 48 h), OECD 202
	Toxicity to aquatic plants	E _r C ₅₀ 19.22 mg a.s./l (Algae, 72 h), OECD 201
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	Endocrine disrupting properties	The substance does not contain components considered to have endocrine disrupting properties.
12.7	Other adverse effects	No other effects to be mentioned. The above values are calculated in accordance with Regulation (EC) 1272/2008.
	Additional ecological information	

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 - UN Number or ID Number**
- 14.5** 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 Maritime transport in bulk according to IMO instruments**
Bulk transport in tankers is not intended.

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

16.1 Material

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.

16.2 Further Information

This version supersedes all previous versions.

Key or legends to abbreviations

ADN- European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR- Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC -Australian Inventory of Industrial Chemicals; ASTM- American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx-Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS- Emergency Schedule; ENCS -Existing and New Chemical Substances (Japan); ErCx- Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA- International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50-Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG- International Maritime Dangerous Goods; IMO- International Maritime Organization; ISHL- Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s.- Not Otherwise Specified; NO(A)EC- No Observed (Adverse) Effect Concentration; NO(A)EL-No Observed (Adverse) Effect Level; NOELR- No Observable Effect Loading Rate; NZIoC- New Zealand Inventory of Chemicals; OECD- Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT- Persistent, Bioaccumulative and Toxic substance; PICCS- Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID- Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS- Safety Data Sheet; TCSI- Taiwan Chemical Substance Inventory; TECI- Thailand Existing Chemicals Inventory; TSCA- Toxic Substances Control Act (United States); UN- United Nations; UNRTDG- United Nations Recommendations on the Transport of Dangerous Goods; vPvB- Very Persistent and Very Bioaccumulative.

-End of safety data sheet-