

## SAFETY DATA SHEET

according to regulation (EC) No. 1907/2006

Revision Date: March 2023



## NEMGUARD SC

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

- 1.1 Product identifier**  
Trade Name NEMGUARD SC  
Product Code NEMSC  
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, 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](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**  
Skin sensitisation, cat 1B, H317
- 2.2 Label elements**  
**Labelling according to regulation (EC) 1272/2008**

Pictogram



Signal word

WARNING

Hazard statement(s)  
H317

May cause an allergic skin reaction.  
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
<b>Garlic extract</b>		
CAS-No. 8000-78-0 8008-99-9	Skin Sens. (Cat. 1B) H317	<=100%
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.<br>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 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 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.<br>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**
- |                                      |  |
|--------------------------------------|--|
| <b>Personal protective equipment</b> |  |
| <b>Engineering measures</b>          | Ensure adequate ventilation, especially in confined areas.   |
| <b>Eye/ face protection</b>          | Wear goggles (conforming to EN166, Field of Use= 5 or equivalent).   |
| <b>Hand protection</b>               | 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. |
| <b>Skin and body protection</b>      | Wear standard coveralls and Category 3 Type 5 suit.  |
| <b>Respiratory protection</b>        | Wear respirator with a vapour filter mask (class 2) conforming to European norm EN140 and EN14387 or equivalent. Recommended filter type ABEK.<br>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	Viscous liquid
b. Colour	Pale brown to dark brown
c. Odour/ Odour threshold	Garlic/ strong
d. Melting point/Freezing point	Not applicable
e. Initial boiling point and boiling range	103 °C
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	5.5- 5.9, at 20°C (CIPAC MT 75.3)
l. Kinematic Viscosity	Non-Newtonian liquid- 497-607 mm <sup>2</sup> /s (OECD 114)
m. Solubility	Soluble in water
n. Partition coefficient: n-octanol/water	-1.49, at 20°C
o. Vapour pressure	0.00218 pa, at 20°C
p. Relative density	1.28 (EEC A3), at 20°C
q. Relative vapour density	Not applicable
r. Particle characteristics	Not applicable

**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

<b>11.1</b>	<b>Information on toxicological effects</b>	
	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	Mild skin 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
<b>11.2</b>	<b>Additional information</b>	No other additional information available.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1</b>	<b>Toxicity</b>	
	Toxicity to fish	LC <sub>50</sub> 11.65mg a.s./l (Carp, 96 h), OECD 203
	Toxicity to aquatic invertebrates	EC <sub>50</sub> 13.69 mg a.s./l (Daphnia, 48 h), OECD 202
	Toxicity to aquatic plants	E <sub>r</sub> C <sub>50</sub> 19.22 mg a.s./l (Algae, 72 h), OECD 201
<b>12.2</b>	<b>Persistence and degradability</b>	
	Not persistent and degradable quickly due to short half life	
<b>12.3</b>	<b>Bio-accumulative potential</b>	
	Does not bio-accumulate	
<b>12.4</b>	<b>Mobility in soil</b>	
	No data available	
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	
	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).	
<b>12.6</b>	<b>Endocrine disrupting properties</b>	
	The substance does not contain components considered to have endocrine disrupting properties.	
<b>12.7</b>	<b>Other adverse effects</b>	
	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.<br>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-**