

SAFETY DATA SHEET

according to regulation (EC) No. 1907/2006

Revision Date: April 2022



NEMGUARD SC

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

1.1 Product identifier

Trade Name	NEMGUARD SC
Product Code	CLAIL0021
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

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.

8008-99-9, 8000-78-0

EC-No.

232-371-1

Component	Classification	Concentration
Garlic extract		
CAS-No. 8008-99-9 8000-78-0	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. 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 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 vapour 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.
	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 viscous liquid
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	103 °C
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
Relative density	1.28 (EEC A3)
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	637-778 mPa.s (OECD 114)
Explosive properties	Not explosive
Oxidising properties	Does not ignite

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 ₅₀ (Carp) 11.65mg a.s./l, Exposure time: 96 h
Toxicity to aquatic invertebrates	EC ₅₀ (Daphnia) 13.69 mg a.s./l Exposure time: 48 h
Toxicity to aquatic plants	E _r C ₅₀ (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.