

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Date: 18/12/2023 Edition: 1 Revision: 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : FOLISEC L

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Plant extracts from the processing of aromatic plants, spices and algae. Stimulates plant

growth and improves their vitality.

1.2.2. Uses advised against

Any other unidentified use is not recommended.

1.3. Details of the supplier of the safety data sheet

PIRECO Productie BV Chroomstraat 8B, 8211 AS, Lelystad +31 (0) 320 233 572 info@pireco.nl

1.4. Emergency telephone number

Nationaal Vergiftigingen Informatie Centrum +31 88

+31 88 755 80 00 Uitsluitend bestemd om professionele hulpverleners

te informeren bij acute vergiftigingen

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH208 - Contains Garlic, ext. (8008-99-9). May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

2.3. Other hazards

This mixture does not meet the PBT criteria of REACH regulation, annex XIII
This mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 %.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

3.2. Mixtures

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
Garlic, ext.	CAS-No.: 8008-99-9 EC-No.: 232-371-1	<1	Flam. Liq. 3, H226 Skin Sens. 1B, H317 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First aid measures

First-aid measures after eye contact

4.1. Description of first aid measures

First-aid measures after inhalation : Remove the injured person from the area of exposure and transfer to a well-ventilated area.

Call a doctor.

First-aid measures after skin contact : Remove contaminated clothing and wash with plenty of soap and water. Call a doctor.

: Wash off immediately with plenty of water and/or isotonic solution for at least 15 minutes. Call

a docto

First-aid measures after ingestion : Do not administer anything by mouth and do not induce vomiting if the injured person is

unconscious. Call a doctor.

For people providing first aid: Use self-contained breathing equipment for airway protection, suitable clothing and gloves for skin protection.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment. Consult a poison center.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use fractionated water, chemical powder, foam or carbon dioxide.

Unsuitable extinguishing media : No unsuitable extinguishing media were identified.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Thermal decomposition or combustion may cause the release of toxic and hazardous fumes

containing COx and other substances in the event of incomplete decomposition.

5.3. Advice for firefighters

Precautionary measures fire : Cool the containers with jet water, even after the fire is extinguished. Remove the containers

from the fire area if this can be done safely.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Leave the area if you are not in possession of the protective

equipment listed in Section 8.

Alert the personnel responsible for the management of such emergencies. Avoid contact with skin and eyes.

18/12/2023 (Edition: 1 Revision: 1) EN (English) 2/10

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. In case of accidental release or spillage, do not allow the mixture to reach drains and surface or ground water. If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Stop leak without risks if possible.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer also to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Handle in a well-ventilated space.

Wear suitable Personal Protective Equipment (see section 8).

Use protective glasses during the mixing / loading phase of the product. Wear personal

protective equipment. Avoid contact with skin and eyes.

Hygiene measures : Remove contaminated clothing and personal protective equipments (PPE) before entering

eating areas. Do not eat, drink or smoke when using this product. Always wash hands after

handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original containers, well-sealed and labelled with the product name, in a cool, dry

place, away from sources of ignition. Avoid exposure to light and protect against moisture. Keep away from incompatible materials. Empty containers may also be hazardous due to product residues. Ventilation of the room/area: well-ventilated room. Keep away from food

and drink.

7.3. Specific end use(s)

Consult the product label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

Monitoring methods	
Monitoring methods	The measurement of substances in the workplace must be carried out with standardized methods (e.g. UNI EN 689:2019: Workplace atmospheres - Guide for assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy; UNI EN 482:2015: Workplace explosure - General requirements for the performance of procedures for the measurement of chemical agents) or, failing that, with appropriate methods.

8.1.3. Air contaminants formed

No additional information available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Wear protective tightly fitting glasse or protective visor (EN 166).

8.2.2.2. Skin protection

Skin and body protection:

Wear category II professional long-sleeved overalls and safety footwear (EN 344). Wash with soap and water after removing protective clothing.

Hand protection:

Wear impervious gloves, resistant to chemical agents (eg rubber, neoprene, PVC), complying with EN 374 standard. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

8.2.2.3. Respiratory protection

Respiratory protection:

Use suitable respiratory protection systems, such as FFP2 class filters (EN 149).

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Ocher with brown corpuscles

Appearance : Cloudy

Odour : No data available, experimental evaluation not conducted Odour threshold : No data available, experimental evaluation not conducted Melting point No data available, experimental evaluation not conducted Freezing point : No data available, experimental evaluation not conducted No data available, experimental evaluation not conducted Boiling point Flammability No data available, experimental evaluation not conducted **Explosive limits** No data available, experimental evaluation not conducted Lower explosion limit No data available, experimental evaluation not conducted Upper explosion limit : No data available, experimental evaluation not conducted Flash point : No data available, experimental evaluation not conducted Auto-ignition temperature : No data available, experimental evaluation not conducted Decomposition temperature : No data available, experimental evaluation not conducted

pH : 5 ± 0.5 Viscosity : <50 cP

Solubility : In water: complete

Partition coefficient n-octanol/water (Log Kow)

: No data available, experimental evaluation not conducted Vapour pressure

: No data available, experimental evaluation not conducted Vapour pressure at 50°C

: No data available, experimental evaluation not conducted

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Density : $1000 \pm 10 \text{ g/L}$

Relative density : No data available, experimental evaluation not conducted Relative vapour density at 20°C : No data available, experimental evaluation not conducted

Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The mixture is stable under normal temperature and pressure conditions and if stored in closed containers in a cool and well-ventilated place.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition or combustion may cause the release of toxic and hazardous fumes containing COx and other substances in the event of incomplete decomposition.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	:	Not classified (Based on available data, the classification criteria are not met)

pH: 4,5 – 6

Garlic, ext. (8008-99-9)	
Additional information	Not irritating to skin
Serious eye damage/irritation :	Not classified (Based on available data, the classification criteria are not met)

р	H: 4,5 – 6
Garlic. ext. (8008-99-9)	

Garlic, ext. (8008-99-9)		
	Additional information	Not irritating to eyes
	Respiratory or skin sensitisation	Not classified (Based on available data, the classification criteria are not met)

Respiratory of skill sensitisation	. Not classified (Based off available data, the classification criteria are not met)

Garlic, ext. (8008-99-9)		
	Additional information	Skin sensitizer (based on human evidence)
	Germ cell mutagenicity :	Not classified (Based on available data, the classification criteria are not met)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)
Additional information : No aspiration toxicity hazards reported for humans.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term : Not classified (Based on available data, the classification criteria are not met)

(acute)

Hazardous to the aquatic environment, long-term

: Not classified (Based on available data, the classification criteria are not met)

(chronic)

Garlic, ext. (8008-99-9)

EC50 - Crustacea

9.3 mg/l Daphnia magna (Water flea)

12.2. Persistence and degradability

Garlic, ext. (8008-99-9)	
Persistence and degradability	The substance is considered to be readily biodegradable.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

FOLISEC L

This mixture does not meet the PBT criteria of REACH regulation, annex XIII

This mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services. Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name	9		
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(e	14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group	14.4. Packing group		
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information availa	No supplementary information available		

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Rail transport

Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Other information, restriction and prohibition regulations

: Regulation REACh (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

Seveso Directive (Disaster Risk Reduction)

Seveso Additional information

: Seveso III: Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, transposed in Italy with D. Lgs. 105/2015. Section: - Category: -

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes:

Edition 1 Revision 0 dated 12/4/2023

Abbreviations and acr	Abbreviations and acronyms:	
ACGIH	American Conference of Governmental Industrial Hygienists	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
BCF	Bioconcentration factor	
CAS	Chemical Abstract Service (division of the American Chemical Society)	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Abbreviations and acronyms:		
NOEC	No-Observed Effect Concentration	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
TLV/TWA	Threshold Limit Value/Threshold Weighted Average	
vPvB	Very Persistent and Very Bioaccumulative	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ATE	Acute Toxicity Estimate	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
EC-No.	European Community number	
EN	European Standard	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
ED	Endocrine disrupting properties	

Data sources

: SDS suppliers. Internal data. EFSA Journal 2012;10(2):2520; Conclusion on the peer review of the pesticide risk assessment of the active substance garlic extract.

Training advice

: Training instructions: Comply with the provisions of Directive 98/24/EC and subsequent amendments and national implementations.

Full text of H-statements:	
H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

This document aims to provide guidance for appropriate handling and precaution of this product by qualified personnel or operating under the supervision of personnel trained in handling chemicals. The product should not be used for purposes other than those mentioned in section 1, unless they are given adequate written information received on how to handle the material.

The provider of this document cannot provide any warnings related to the dangers of using, interaction with other materials or chemicals or user's safe use of the product, the suitability of the product for which is applied or its proper disposal. The information above should not be considered a declaration or guarantee, either expressed or implied, of merchantability, fitness for a particular purpose, quality, or any other. The information contained in this SDS are in accordance with Regulation (EU) No 2020/878