

according to Regulation (EC) No 1907/2006

NATURAL HELIOTROPIN

Revision date: 12.02.2024

Product code: 291100

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

1.1. Product identifier

NATURAL HELIOTROPIN

Substance name:	NATURAL HELIOTROPIN
CAS No:	120-57-0
EC No:	204-409-7

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

Use of the substance/mixture

For Flavour use for food and feed only

1.3. Details of the supplier of the safety data sheet

Company name:	Axxence Aromatic GmbH	
Street:	Tackenweide 28	
Place:	D-46446 Emmerich am Rhein	
Telephone:	+ 49 2822 68561 0	Telefax:+ 49 2822 68561 39
E-mail:	info@axxence.com	
Contact person:	Safety Team	Telephone: + 49 2822 68561 0
E-mail:	safety-documentation@axxence.com	
Internet:	www.axxence.de	
Responsible Department:	Safety Management	
1.4. Emergency telephone	+49 2822 68561 99	

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:



Warning

Hazard statements

H317

May cause an allergic skin reaction.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to organic waste.

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2.3. Other hazards

This substance is not identifed as SVHC (substance of very high concern) and is not subject to autorisation according to Annex XIV of REACH. This substance is not listed as Substance of Very High Concern (SVHC) in the Candidate List according to REACH, Article 59.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C8 H6 O3		
Molecular weight:	150.13 a/mol		

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
Classification (Regulation (EC) No 1272/2008)				
120-57-0	NATURAL HELIOTROPIN			100 %
	204-409-7			
	Skin Sens. 1; H317			

Full text of H and EUH statements: see section 16.

Specific Conc	Specific Conc. Limits, M-factors and ATE					
CAS No	AS No EC No Chemical name					
	Specific Conc. Limits, M-factors and ATE					
120-57-0	204-409-7	NATURAL HELIOTROPIN	100 %			
	dermal: LD50 =	: >5000 mg/kg; oral: LD50 = 2700 mg/kg				

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink 1 glass of of water.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Heating causes rise in pressure with risk of bursting.



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5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation.

For emergency responders

Wear a self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

6.3. Methods and material for containment and cleaning up

For cleaning up

Ventilate affected area.

Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

For Flavour use for food and feed only

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

CAS No	Name of agent		-	
DNEL type		Exposure route	Effect	Value
120-57-0	NATURAL HELIOTROPIN			
Worker DNEL	, long-term	inhalation	systemic	5,29 mg/m³
Worker DNEL, long-term		dermal	systemic	0,75 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,3 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,375 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	0,375 mg/kg bw/day

PNEC values

CAS No	Name of agent					
Environmental compartment						
120-57-0	NATURAL HELIOTROPIN	NATURAL HELIOTROPIN				
Freshwater 0,0025 mg/l						
Freshwater (intermittent releases) 0,025 mg/l						
Marine water		0,00025 mg/l				
Freshwater sediment		0,0119 mg/kg				
Marine sedir	0,0012 mg/kg					
Micro-organisms in sewage treatment plants (STP)		10 mg/l				
Soil	0,00084 mg/kg					

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable gloves type Disposable gloves + NBR (Nitrile rubber)

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical	state:
Colour:	

white



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Melting point/freezing point:	37 °C	
Boiling point or initial boiling point and	272 °C	
boiling range: Flammability:	not determined	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	This information is not available.	
Auto-ignition temperature:	This information is not available.	
Decomposition temperature:	not determined	
pH-Value:	not determined	
Viscosity / kinematic:	not applicable	
Water solubility:	1,42 g/l	
(at 20 °C) Solubility in other columnts		
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:	1,2	
Vapour pressure:	0,02 hPa	
(at 20 °C)		
Density (at 20 °C):	1,42 g/cm ³	
Relative vapour density:	not determined	
Particle characteristics:	not applicable	
9.2. Other information		
Information with regard to physical hazard class	es	
Explosive properties		
The product is not: Explosive. not explosive act Oxidizing properties	cording to EU A.14	
The product is not: oxidising.		
Other safety characteristics		
Evaporation rate:	not determined	
Solvent content:	0%	
Solid content:	100,00 %	
SECTION 10: Stability and reactivity		

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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



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Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
120-57-0	NATURAL HELIOTROPIN						
	oral	LD50 mg/kg	2700	Rat	REACH registration	OECD 401	
	dermal	LD50 mg/kg	>5000	Rat	REACH registration	OECD 402	

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (NATURAL HELIOTROPIN)

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

Other information

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
120-57-0	NATURAL HELIOTROPIN							
	Acute fish toxicity	LC50	2,5 mg/l		Cyprinus carpio (Common Carp)	REACH registration	OECD 203	
	Acute algae toxicity	ErC50	6,8 mg/l		Pseudokirchneriella subcapitata	REACH registration	OECD 201	
	Acute crustacea toxicity	EC50	52 mg/l		Daphnia magna (Big water flea)	REACH registration	OECD 202	
	Acute bacteria toxicity	EC50 mg/l()	>100	3 h	Activated sludge	REACH Registration	OECD 301F	

12.2. Persistence and degradability

The product has not been tested.



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CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
120-57-0	NATURAL HELIOTROPIN						
	OECD 301 F	29%	2	REACH Dossier			
	Readily biodegradable (according to OECD criteria).						
	OECD 301 F	77%	7	REACH Dossier			
	Readily biodegradable (according to OECD criteria).						
	OECD 301 F	82%	28	REACH Dossier			
	Readily biodegradable (according to OECD criteria).						

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
120-57-0	NATURAL HELIOTROPIN	1,2

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. The product has not been tested.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms. No information available.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.



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SECTION 14: Transport information

Land transport (ADR/RID)						
<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.					
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.					
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.					
14.4. Packing group:	No dangerous good in sense of this transport regulation.					
Inland waterways transport (ADN)						
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.					
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.					
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.					
14.4. Packing group:	No dangerous good in sense of this transport regulation.					
Marine transport (IMDG)						
<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.					
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.					
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.					
14.4. Packing group:	No dangerous good in sense of this transport regulation.					
Air transport (ICAO-TI/IATA-DGR)						
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.					
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.					
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.					
14.4. Packing group:	No dangerous good in sense of this transport regulation.					
14.5. Environmental hazards						
ENVIRONMENTALLY HAZARDOUS:	No					
14.6. Special precautions for user						
No information available.						
	14.7. Maritime transport in bulk according to IMO instruments					
not applicable						
SECTION 15: Regulatory information						
15.1. Safety, health and environmental regu	ulations/legislation specific for the substance or mixture					
EU regulatory information						
Information according to Directive	Not subject to 2012/18/EU (SEVESO III)					
2012/18/EU (SEVESO III):						
Additional information						
To follow: 850/2004/EC, 79/117/EEC,	680/2008/EC					
National regulatory information	003/2000/20					
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).					
Water hazard class (D):	2 - obviously hazardous to water					
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.					
15.2. Chemical safety assessment						
For this substance a chemical safety a	assessment has not been carried out.					
SECTION 16: Other information						

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,11,12,14,15,16.



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Abbreviations and acronyms

Skin Sens: Skin sensitisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration. 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu EC/EEC: European Community/European Economic Community EU: European Union M-factor: Multiplying factor IATA: International Air Transport Association DGR: Dangerous Goods Regulations ICAO: International Civil Aviation Organization **TI: Technical Instructions** For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Relevant H and EUH statements (number and full text)

H317 May cause an allergic skin reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.



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Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
	For Flavour use for food and feed only	-	-	-	-	-	-	-	Flavour

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use PROC: Process categories

AC: Article categories