

according to Regulation (EC) No 1907/2006

NATURAL NEROL						
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SECTION 1: Identification of the substance/mixture and of the company/undertaking						
1.1. Product identifier NATURAL NEROL						
Substance name:	NATURAL NEROL					
CAS No:	106-25-2					
EC No:	203-378-7					
1.2. Relevant identified uses of the	ne substance or mixture and uses advised	<u>l against</u>				
Use of the substance/mixture						
For Flavour use for food an	d 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:	Andreas Goertz	Telephone: + 49 2822 68561 14	3			
E-mail:	andreas.goertz@axxence.com					
Internet:	www.axxence.de					
Responsible Department:	QM - Regulatory Affairs - Safety Mar	agement				
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 Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

- Regulation (EC) No 1272/2008
 - Signal word: Warning

Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary statements

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P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
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 and soap.

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P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313 P501	If eye irritation persists: Get medical advice/attention. Dispose of contents/container to organic waste.	

2.3. Other hazards

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

3.1. Substances

Sum formula:	C10 H18 O
Molecular weight:	154,25

Relevant ingredients

CAS No	Chemical name			Quantity		
	EC No	EC No Index No REACH No				
	Classification (Regulation (EC) No 1272/2008)					
106-25-2	NATURAL NEROL	NATURAL NEROL				
	203-378-7					
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317					

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

Specific Conc. Limits, M-factors and ATE				
CAS No	EC No Chemical name			
	Specific Conc. Limits, M-factors and ATE			
106-25-2	203-378-7 NATURAL NEROL			
dermal: LD50 = >5000 mg/kg; oral: LD50 = 4500 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

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. 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



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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. Vapours can form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

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

Additional information

Use water spray jet to protect personnel and to cool endangered containers. 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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). 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.

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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

DNEL/DMEL values

CAS No	Name of agent				
DNEL type		Exposure route	Effect	Value	
106-25-2	NATURAL NEROL				
Worker DNEL,	long-term	inhalation	systemic	4,4 mg/m³	
Worker DNEL, long-term		dermal	systemic	1,25 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	1,09 mg/m³	
Consumer DNEL, long-term		dermal	systemic	0,62 mg/kg bw/day	
Consumer DNEL, long-term		oral	systemic	0,62 mg/kg bw/day	

PNEC values

CAS No	Name of agent		
Environment	Environmental compartment Value		
106-25-2	NATURAL NEROL		
Freshwater		0,0075 mg/l	
Freshwater	Freshwater (intermittent releases) 0,0745 mg/l		
Marine water 0,0		0,0008 mg/l	
Freshwater sediment		0,133 mg/kg	
Marine sediment		0,0133 mg/kg	
Micro-organisms in sewage treatment plants (STP)		12,9 mg/l	
Soil		0,0223 mg/kg	

8.2. Exposure controls





Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

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.

Skin protection

Use of protective clothing.

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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:	Liquid	
Colour:	colourless	
Melting point/freezing point:		-15 °C
Boiling point or initial boiling point ar	nd	225 °C
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		97 °C
Auto-ignition temperature:		250 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		10,1 mm²/s
(at 20 °C)		
Water solubility:		0,77 g/L
(at 20 °C)		
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		3,47
Vapour pressure:		0,0024 hPa
(at 20 °C)		
Vapour pressure:		3,2 hPa
(at 50 °C)		
Density (at 20 °C):		0,88 g/cm ³
Relative vapour density:		5,33
(at 20 °C)		not oppliaable
Particle characteristics:		not applicable
9.2. Other information		
Information with regard to physica	I nazaro classes	
Explosive properties	at explosive eccerding to FULA 14	
Oxidizing properties	ot explosive according to EU A.14	
The product is not: oxidising.		
Other safety characteristics		
Evaporation rate:		not determined

Evaporation rate.not determinedSolvent content:0%Solid content:0%Viscosity / dynamic:8,9 mPa·s(at 20 °C)6

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.



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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

Acute toxicity

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

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
106-25-2	NATURAL NEROL					
		LD50 mg/kg	4500	Rat	REACH Dossier	OECD 401
		LD50 mg/kg	>5000	Rabbit	REACH Dossier	OECD 402

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation. Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (NATURAL NEROL)

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

This substance does not have endocrine disrupting properties with respect to humans.

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.



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CAS No	Chemical name	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
106-25-2	NATURAL NEROL							
	Acute fish toxicity	LC50 mg/l	20,3	96 h	Danio rerio (zebrafish)	REACH Dossier	OECD 203	
	Acute algae toxicity	ErC50 mg/l	9,54		Pseudokirchneriella subcapitata	REACH Dossier	OECD 201	
	Acute crustacea toxicity	EC50 mg/l	32,4		Daphnia magna (Big water flea)	REACH Dossier	OECD 202	
	Acute bacteria toxicity	EC50 ()	241 mg/l	3 h	Activated sludge	REACH Dossier	OECD 209	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
106-25-2	NATURAL NEROL			
	OECD 301D	69%	7	REACh Dossier
	Readily biodegradable (according to OECD criteria).			
	OECD 301D	84%	14	REACh Dossier
Readily biodegradable (according to OECD criteria).				
	OECD 301D	90%	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
106-25-2	NATURAL NEROL	3,47

BCF

CAS No	Chemical name	BCF	Species	Source
106-25-2	NATURAL NEROL	35,4		REACH Dossier

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.

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



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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.

SECTION 14: Transport information

Land transport (ADR/RID)

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.			
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.			
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.			
Marine transport (IMDG)				
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.			
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 regulations/legislation specific for the substance or mixture				
EU regulatory information				

100 % (880 g/l)

paints and varnishes:

Directive 2004/42/EC on VOC in



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Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)				
Additional information					
To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC					
National regulatory information					
Employment restrictions:	Observe restrictions to employment for juveniles accordi work protection guideline' (94/33/EC).	ng to the 'juvenile			
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 assessment has not been carried out.					
SECTION 16: Other information					

SECTION 16: Other information



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Abbreviations and acronyms

Skin Irrit: Skin irritation Eye Irrit: Eye irritation 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 DNFL: 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 VOC: Volatile Organic Compounds 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** VOC: volatile organic compound 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)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

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H319 Causes serious eye irritation.

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.