

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

762270 NEROLEX (drum)

Version 6

Revision Date 09.11.2018

Print Date 05.04.2019

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

1.1 Product identifier

Commercial Product Name : NEROLEX (drum)
Material number : 762270
CAS-No. : 106-25-2
EC-No. : 203-378-7

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

Use of the Substance/Mixture : Aroma chemical

1.3 Details of the supplier of the safety data sheet

Company : Symrise AG
Muehlenfeldstrasse 1
D-37603 Holzminden

Telephone : +495531900

Telefax : +495531901649

E-mail address : sds@symrise.com

For further information, please contact:
Symrise AG - Tel.: +49 / (0)5531 / 90-0

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 101844: +49(6132)9829021

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315
Eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 

Signal word : **Warning**

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Hazard statements	: H315 H317 H319	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Precautionary statements	: Prevention: P264 P280 Response: P302 + P352 P305 + P351 + P338 P333 + P313 P337 + P313	Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.

Contains : NEROL.

2.3 Other hazards

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical characterization : Nerol
Molecular weight : 154,25 g/mol
CAS-No. : 106-25-2
EINECS-No. / ELINCS No. : 203-378-7

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Nerol	106-25-2 203-378-7	Skin Sens.: 1B; H317 Skin Irrit.: 2; H315 Eye Irrit.: 2; H319	>= 50 - <= 100
Geraniol	106-24-1 203-377-1	Skin Irrit.: 2; H315 Eye Dam.: 1; H318 Skin Sens.: 1B; H317	>= 0,1 - < 1
Citral	5392-40-5 226-394-6	Eye Irrit.: 2; H319 Skin Irrit.: 2; H315 Skin Sens.: 1B; H317	>= 0,1 - < 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Never give anything by mouth to an unconscious person.
- Inhalation : Move to fresh air.
- Skin contact : Take off all contaminated clothing immediately.
If skin irritation persists, call a physician.
Wash off immediately with plenty of water for at least 15 minutes.
- Eye contact : Protect unharmed eye.
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Remove contact lenses.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.
Prevent vomiting if possible.
If a person vomits when lying on his back, place him in the recovery position.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which shall not be used for safety reasons : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.
Avoid subsoil penetration.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Dam up.
Wipe up with absorbent material (e.g. cloth, fleece).

Additional advice : Local authorities should be advised if significant spillages cannot be contained.
Suppress (knock down) gases/vapours/mists with a water spray jet.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : Dispose of rinse water in accordance with local and national regulations.
Avoid contact with skin and eyes.
For personal protection see section 8.

Advice on protection against fire and explosion : When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
To maintain product quality, do not store in heat or direct sunlight.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Aroma chemical

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters, Spain:

Components	CAS-No.	Control parameters	Update	Basis
Citral	5392-40-5	VLA-ED 5 ppm	2013	VLA (ES)

Components with workplace control parameters, Poland:

Components	CAS-No.	Control parameters	Update	Basis
Citral	5392-40-5	NDSch 54 mg/m ³ NDS 27 mg/m ³	12 2011 12 2011	POL MAC POL MAC

8.2 Exposure controls

Engineering measures

none

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.
Wear chemicals-resistant gloves, e.g. safety gloves of chloroprene Level 2 or of butyl rubber Level 6.
- Eye protection : Safety glasses
- Skin and body protection : Lightweight protective clothing
Remove and wash contaminated clothing before re-use.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.
- Protective measures : Avoid contact with skin.
When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

- Form : clear liquid
- Colour : colorless
- Odour : characteristic
- Odour Threshold : No data available

Safety data

- Flash point : 100 °C

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Water solubility	:	ca. 0,73728 g/l Method: OECD Test Guideline 105
Relative density	:	0,8756 - 0,8796 at 20 °C relation to density of water at 4°C
Bulk density	:	Not applicable
Relative vapour density	:	not determined
Vapour pressure	:	0,0239 hPa atca. 20 °C Method: OECD Test Guideline 104 0,0464 hPa atca. 25 °C Method: OECD Test Guideline 104 < 1 kPa at 50 °C calculated
Melting point/freezing point	:	Melting point/freezing point < -20 °C at 1.013 hPa
Boiling point	:	ca. 223 °C at985 hPa Method: OECD Test Guideline 103 GLP: no
Partition coefficient: n-octanol/water	:	log Pow: 2,76
pH	:	Not applicable
Viscosity, dynamic	:	8,9 mPa.s at 20 °C Method: OECD Test Guideline 114 GLP: no 4,5 mPa.s at 40 °C Method: OECD Test Guideline 114 GLP: no
Viscosity, kinematic	:	6,385 mm ² /s at 25 °C
Evaporation rate	:	Lower than the evaporation rate of butyl acetate = 1
Flammability (solid, gas)	:	Not applicable
Auto-ignition temperature	:	250 °C at 994 hPa
Decomposition temperature	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Explosive properties	:	Due to its structural properties, the product is not classified as explosive
Lower explosion limit	:	Vapours may form explosive mixtures with air.
Upper explosion limit	:	Vapours may form explosive mixtures with air.

A final assessment of potential explosion hazards can only be made on a case-by-case basis when precise information is available on product handling, production setup and the circumstances surrounding the use of the product.

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9.2 Other data

None.

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity** : No data available
- 10.2 Chemical stability** : No data available
- 10.3 Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use.
- 10.4 Conditions to avoid** : No data available
- 10.5 Incompatible materials to avoid** : No data available
- 10.6 Hazardous decomposition products** : No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute oral toxicity : LD50 Oral Rat: 4.500 mg/kg, OECD Test Guideline 401
- Acute inhalation toxicity : No data available
- Acute dermal toxicity : LD50 Dermal Rabbit: > 5.000 mg/kg, OECD Test Guideline 402
- Repeated dose toxicity : No data available
- Acute toxicity (other routes of administration) : No data available
- Skin irritation : Rabbit: Skin irritation @ 100 %
- Eye irritation : Rabbit: Moderate eye irritation @ 100 %
- Sensitisation : Mouse: Sensitizing effect. @ 23 %
- Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Carcinogenicity : No data available
- Reproductive toxicity : No data available
- Teratogenicity : No data available
- Specific target organ toxicity - single exposure : No data available
- Specific target organ toxicity - repeated exposure : No data available
- Aspiration toxicity : No data available

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

- Acute Fish toxicity : LC50: 20,3 mg/l/96 h; Danio rerio (zebra fish), OECD Test Guideline 203
- Acute toxicity Aquatic invertebrates : EC50: 32,4 mg/l/48 h; Daphnia magna (Water flea), OECD Test Guideline 202
- Toxicity to aquatic plants : ErC50: 9,54 mg/l/72 h; Pseudokirchneriella subcapitata (green algae), OECD Test Guideline 201
- Toxicity to microorganisms : EC50: 241 mg/l/3 h; Activated sludge, OECD 209

12.2 Persistence and degradability

Readily biodegradable.
91 %/28 d, OECD 301F
Readily biodegradable.
90 %/28 d, OECD 301D

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- Product : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
- Contaminated packaging : Empty remaining contents. Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not classified as dangerous in the meaning of transport regulations.

14.2 Proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class

Not classified as dangerous in the meaning of transport regulations.

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14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

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

National legislation

Risk classification according to BetrSichV (Germany) : Flash Point > 55 °C up to 100 °C, at 15 °C not miscible with water

Water contaminating class (Germany) : WGK 2 (water endangering)
3.312 VwVwS Annex 3

15.2 Chemical safety assessment

No data available

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Further information

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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Any data changes with reference to previous versions are marked by a vertical line in front of the concerned paragraph.