Safety Data Sheet
according to regulation (EG) 1907/2006

1. Product and company identification

1.1 Product Identifier

Bergamotteöl natürlich (0346)

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

Use of the substance / mixture : Cosmetic ingredient

1.3 Details of the supplier of the safety data sheet

Manufacturer / supplier:	Nöring Naturprodukte GmbH & Co. KG
street:	St. Huberter Str. 82
Nat.-Ident./ postcode/ town:	D - 47906 Kempen
Phone:	+49 (0) 2152 99446-0
Fax:	+49 (0) 2152 4139
E-Mail:	info@noering-naturprodukte.de

1.4 Emergency telephone number:

Nöring Naturprodukte GmbH & Co. KG, St. Huberter Str. 82, 47906 Kempen,
Tel.: +49 (0) 2152 99446-0 (Mo.-Do. 8-17 Uhr Fr. 8-15 Uhr)
Tel.: +49 (0) 551 192 40 (Giftinformationszentrum Nord)

2. Hazard identification

2.1. Classification of the substance or mixture

GHS Classification / Regulation CLP

Flam. Liq. 3	H226 Flammable liquid and vapour.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2	H315 Causes skin irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Eye Irrit. 2	H319 Causes serious eye irritation.
Repr. 2	H361 Suspected of damaging fertility or the unborn child.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

GHS Classification / Regulation CLP

Pictograms

Signal word Danger

Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
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H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof [electrical/ventilating/lighting/…] equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash contact areas thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/…
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/…
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P321 Specific measures (see supplemental first aid instructions on this label or in the SDS).
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use dry chemical, foam or CO2 for extinction.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with all applicable regulations.

Special Provisions
EUH208 Contains Linalyl acetate. May produce an allergic reaction.
EUH208 Contains Linalool. May produce an allergic reaction.
EUH208 Contains citral. May produce an allergic reaction.
EUH208 Contains b-Caryophyllene. May produce an allergic reaction.
EUH208 Contains Geraniol. May produce an allergic reaction.

Contains
(R)-p-Mentha-1,8-diene, beta-pinene, gamma-terpinene, alpha-pinene

3. Composition / Information on ingredient

3.2. Mixtures

(R)-p-Mentha-1,8-diene		60 - 70
EC:227-813-5 CAS:5989-27-5	Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1, H226, H315, H317, H400, H410, M-Chronic:1, MAcute:1	
Linalyl acetate		7 - 10
CAS-Nr.: 115-95-7 EINECS: 204-116-4	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1A - H315, H317, H319	
beta-pinene		7 - 10
EC:204-872-5 CAS:127-91-3	Flam. Liq. 3; Asp. Tox. 1;Skin Irrit. 2; Skin Sens.1B; Aquatic Chronic 1, H226, H304, H315, H317,H410; Aquatic Acute 1, H400, M-Acute:1, MChronic:1	
gamma-terpinene		7 – 10
EC:202-794-6 CAS:99-85-4	Flam. Liq. 3; Repr. 2; Aquatic Chronic 2, H226, H361, H411	
Linalool		5 - 7
EC:201-134-4 CAS:78-70-6	Skin Sens. 1B; Skin Irrit. 2; Eye Irrit. 2, H317, H315, H319	
Alpha-pienene		1 - 3
EC:201-291-9 CAS:80-56-8	Flam. Liq. 3 Acute Tox. 4, Asp. Tox. 1 Skin Irrit. 2, Skin Sens. 1B Aquatic Chronic 1, H226, H302, H304, H315, H317, H410, M-Chronic:1	
citral		0,5 - 1
EC:226-394-6 CAS:5392-40-5	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2, H315, H317, H319	
b-Caryophyllene		0,5 - 1
EC:201-746-1 CAS:87-44-5	Asp. Tox. 1; Skin Sens. 1B; Aquatic Chronic 4, H304, H317, H413	
1-Methyl-4-isopropylbenzene		0,25 – 0,5
EC:202-796-7 CAS:99-87-6	Flam. Liq. 3, H226 Acute Tox. 3, H331 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Repr. 2, H361	
Geraniol		0,25 – 0,5
EC:203-377-1 CAS:106-24-1	Skin Irrit. 2; Skin Sens. 1B; Eye Dam. 1, H315, H317, H318	
myrcene		0,25 – 0,5
EC:204-622-5 CAS:123-35-3	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 2, H226, H304, H315, H319, H400, H411, M-Chronic:1, M-Acute:1	

4. First aid measures

4.1. Description of first aid measures

General Notes Never give anything by mouth to an unconscious person.
If Inhaled Remove casualty to fresh air and keep warm and at rest.

Contact with skin	Immediately take off all contaminated clothing. Remove contaminated clothing immediatley and dispose off safely. After contact with skin, wash immediately with soap and plenty of water.
Contact with eyes	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately. Protect uninjured eye.
If swallowed	Do not induce vomiting, get medical attention showing the SDS and label hazardous. If symptoms persist consult doctor.

4.2. Most important symptoms and effects, both acute and delayed
Eye irritation, Eye damages, Skin Irritation, Erythema

4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

5. Fire fighting

5.1. Extinguishing media
Appropriate extinction method
Carbon dioxide (CO_2)
Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture
Do not inhale explosion or combustion gases. Burning produces heavy smoke.

5.3. Advice for firefighters
Use suitable breathing apparatus. Collect contaminated fire extinguishing water. Do not discharge into drains.
Move undamaged containers from immediate hazard area but only if it can be done safely.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment. Remove all sources of ignition. Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up
Suitable material for taking up: absorbing material, organic, sand
Wash with plenty of water.

6.4. Reference to other sections
See also section 8 and 13

7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contamined clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Closed recipients, away from the light, in a cool, dry place (optimum storage temperature between 10ºC and 25ºC). Shake before using. Always keep in a well ventilated place. Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight. Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Avoid accumulating electrostatic charge.

Incompatible materials

None in particular.

Instructions regarding storage premises

Cool and adequately ventilated. Safety electric system.

7.3. Specific end use(s)

No Concerned

8. Exposure controls / Personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm
(R)-p-Mentha-1,8-diene	MAK	Germany	28	5		
	NATIONAL	Germany			112	20
	NATIONAL	Finland	140	25	280	50
	NATIONAL	Germany	28	5		
	NATIONAL	Spain	168	30		
	NATIONAL	France	1000		1500	
beta-pinene	ACGIH			20		
	NATIONAL	Spain	113	20		
	NATIONAL	Portugal		20		
	NATIONAL	Belgium		20		
alpha-pinene	ACGIH			20		
	NATIONAL	Spain	113	20		
	NATIONAL	Portugal		20		
	NATIONAL	Belgium		20		
citral	ACGIH			5		
	NATIONAL	Spain		5		
	NATIONAL	Poland	27		54	
1-Methyl-4-isopropylbenzene						
	NATION	Russian	10			

8.2. Exposure controls

Eye protection	Use close fitting safety goggles, don't use eye lens.
Protection for skin	Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Protection for hands	Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
Respiratory protection	Not determined
Hygienic and Technical measures	Not determined

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State:	Liquid
Odour:	Citrus fresh. Ethereal, characteristic
Kinematic viscosity:	<= 20,5 mm2/sec (40 °C)
Refraction index:	1,4615 – 1,4815
Flash point:	54 °C (129 °F)
Relative density:	0.86 g/cm3

10. Stability and reactivity

10.1. Reactivity
It may generate dangerous reactions

10.2. Chemical stability
It may generate dangerous reactions

10.3. Possibility of hazardous reactions
None

10.4. Conditions to avoid
Avoid accumulating electrostatic charge.

10.5. Incompatible materials
Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products
None

11. Toxicological Information

11.1. Information on toxicological

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1(H317)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	The product is classified: Repr. 2(H361)

h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	The product is classified: Asp. Tox. 1(H304)

Toxicological information on main components of the mixture

(R)-p-Mentha-1,8-diene	a) acute toxicity	LD50 Oral Rat = 5200 mg/kg LD50 Skin Rabbit > 5 g/kg LD50 Oral Rat = 4400 mg/kg
Linalyl acetate	a) acute toxicity	LD50 Oral Rat = 14550 mg/kg LD50 Skin Rabbit > 5000 mg/kg
beta-pinene	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg LD50 Skin Rabbit > 5000 mg/kg
gamma-terpinene	a) acute toxicity	LD50 Oral Rat = 3650 mg/kg
Linalool	a) acute toxicity	LD50 Oral Rat = 2790 mg/kg LC50 Inhalation Mouse = 3.2 mg/l 1h
alpha-pinene	a) acute toxicity	ATE - Oral : 500 mg/kg bw LD50 Oral Rat = 3700 mg/kg LD50 Skin Rat > 5000 mg/kg
citral	a) acute toxicity	LD50 Oral Rat = 4960 mg/kg LD50 Skin Rabbit = 2250 mg/kg
1-Methyl-4-isopropylbenzene	a) acute toxicity	ATE - Inhalation (Vapours) : 3 mg/l LC50 Inhalation Rat > 9.7 mg/l 5h LD50 Skin Rabbit > 5000 mg/kg LD50 Oral Rat = 4750 mg/kg
Geraniol	a) acute toxicity	LD50 Skin Rabbit > 5 g/kg LD50 Oral Rat = 3600 mg/kg
myrcene	a) acute toxicity	LD50 Oral Rat > 5 g/kg LD50 Skin Rabbit > 5 g/kg

12. Ecological Information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information Toxic to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
(R)-p-Mentha-1,8-diene	CAS: 5989-27-5 EINECS: 227-813-5	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 0.619 mg/L 96h EPA - 0.619 - 0.796 flow-through a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 35 mg/L 96h EPA
Linalool	CAS: 78-70-6 EINECS: 201-134-4	a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 20 mg/L 48h IUCLID a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 88.3 mg/L 96h IUCLID

alpha-pinene	CAS: 80-56-8 EINECS: 201-291-9	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 0.28 mg/L 96h IUCLID - static
citral	CAS: 5392-40-5 EINECS: 226-394-6	a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 7 mg/L 48h IUCLID a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 16 mg/L 72h IUCLID

12.2. Persistence and degradability
12.3. Bioaccumulative potential
12.4. Mobility in soil
12.5. Results of PBT and vPvB assessment
12.6. Other adverse effects

Not Available

13. Disposal recommendations

13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.
German Water Hazard Class Class 2: hazardous for water.

14. Transport information

14.1. UN number 1197

14.2. UN proper shipping name
ADR/ IMDG/ IATA EXTRACTS, FLAVOURING, LIQUID

14.3. Transport hazard class(es)
ADR/ IMDG/ IATA 3

14.4. Packing group
ADR/ IMDG/ IATA III

14.5. Environmental hazards

Most important toxic component:	beta-Pinene
Toxic ingredients quantity:	8.59
Very toxic ingredients quantity:	70.76
Marine pollutant:	Yes
Environmental Pollutant:	Yes
IMDG-EMS:	F-E, S-D

14.6. Special precautions for user

ADR-Label:	3
ADR - Hazard identification number:	-
ADR-Special Provisions:	601
ADR-Transport category (Tunnel restriction code):	3 (E)

IATA-Passenger Aircraft:	355
IATA-Cargo Aircraft:	366
IATA-Label:	3
IATA-Subsidiary hazards:	-
IATA-Erg:	3L
IATA-Special Provisions:	A3
IMDG-Stowage Code:	Category A
IMDG-Stowage Note:	-
IMDG-Subsidiary hazards:	-
IMDG-Special Provisions:	223 955

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
No Concerned

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)
Regulation (EU) n. 2020/878
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications

Restrictions related to the product:	3, 40
Restrictions related to the substances contained:	75

Provisions related to directive EU 2012/18 (Seveso III)

Not Available
German Water Hazard Class
Class 3: extremely hazardous
Lagerklasse according to TRGS 510
LGK 3
SVHC Substances
None > 0.1%

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.

16. Other information

Code Description
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H361 Suspected of damaging fertility or the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Code Hazard class and hazard category Description
2.6/3 Flam. Liq. 3 Flammable liquid, Category 3
3.1/3/Inhal Acute Tox. 3 Acute toxicity (inhalation), Category 3
3.1/4/Oral Acute Tox. 4 Acute toxicity (oral), Category 4
3.10/1 Asp. Tox. 1 Aspiration hazard, Category 1
3.2/2 Skin Irrit. 2 Skin irritation, Category 2
3.3/2 Eye Irrit. 2 Eye irritation, Category 2
3.4.2/1 Skin Sens. 1 Skin Sensitisation, Category 1
3.4.2/1B Skin Sens. 1B Skin Sensitisation, Category 1B
3.7/2 Repr. 2 Reproductive toxicity, Category 2
4.1/A1 Aquatic Acute 1 Acute aquatic hazard, category 1
4.1/C1 Aquatic Chronic 1 Chronic (long term) aquatic hazard, category 1
4.1/C2 Aquatic Chronic 2 Chronic (long term) aquatic hazard, category 2
4.1/C3 Aquatic Chronic 3 Chronic (long term) aquatic hazard, category 3
4.1/C4 Aquatic Chronic 4 Chronic (long term) aquatic hazard, category 4