



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

RIPE VAPES - KEY LIME COOKIE

Version number: GHS 1.0

Date of compilation: 19.07.2019

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

1.1 Product identifier

Trade name

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Registration number (REACH)

not relevant (mixture)

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

Relevant identified uses

Flavor for Vaporizer Liquid

1.3 Details of the supplier of the safety data sheet

Feal GmbH
Motorstraße 41
70499 Stuttgart
Deutschland

Tel.: +49 (0)711 - 21 95 77 33
eMail: mail@fealgmbh.de
Web: www.vape-distribution.de

competent person responsible for the safety data sheet

Island Fog GmbH
Kriegshaberstr. 36
86156 Augsburg
Deutschland
Ronny Künniger / +49(0)82144400988 / info@islandfog-liquids.com

1.4 Emergency telephone number

FEAL GmbH: +49(0)711-21957733 This phone number is available 24 hours a day, 7 days a week.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Cat-egory	Hazard class and category	Hazard state-ment
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

- Signal word warning

- Pictograms

GHS07



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- Hazard statements

- H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

- P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to industrial combustion plant.

- Supplemental hazard information

- EUH208 Contains Lime (Citrus aurantifolia), ext., (R)-p-mentha-1,8-diene, p-mentha-1,4(8)-diene, (-)-pin-2(10)-ene, p-mentha-1,3-diene, Cinnamomum cassia, ext., Piperonal. May produce an allergic reaction.

Derogations from labelling requirements

Labelling of packages where the contents do not exceed 125 ml

- Signal word warning

- Hazard pictogram(s)

Warning. GHS07



- Hazard statements

- H412 Harmful to aquatic life with long lasting effects.

- Supplemental hazard information

- EUH208 Contains Lime (Citrus aurantifolia), ext., (R)-p-mentha-1,8-diene, p-mentha-1,4(8)-diene, (-)-pin-2(10)-ene, p-mentha-1,3-diene, Cinnamomum cassia, ext., Piperonal. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Propane-1,2-diol	CAS No 57-55-6 EC No 200-338-0 REACH Reg. No 01-2119456809-23- xxxx	25 – < 31,25		

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Vanillin	CAS No 121-33-5 84650-63-5 EC No 204-465-2 REACH Reg. No 01-2119516040-60- xxxx	5 – < 10	Eye Irrit. 2 / H319	
ethanol	CAS No 64-17-5 EC No 200-578-6 Index No 603-002-00-5 REACH Reg. No 01-2119457610-43- xxxx	5 – < 10	Flam. Liq. 2 / H225	
3-ethoxy-4-hydroxybenzaldehyde	CAS No 121-32-4 EC No 204-464-7 REACH Reg. No 01-2119958961-24- xxxx	2 – < 3	Eye Irrit. 2 / H319	
Benzyl alcohol	CAS No 100-51-6 EC No 202-859-9 Index No 603-057-00-5 REACH Reg. No 01-2119492630-38- xxxx	2 – < 3	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Eye Irrit. 2 / H319	
2-ethyl-3-hydroxy-4-pyrone	CAS No 4940-11-8 EC No 225-582-5 REACH Reg. No 01-2120758795-36- xxxx	1 – < 2	Acute Tox. 4 / H302	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
(R)-p-mentha-1,8-diene	CAS No 5989-27-5 68606-81-5 EC No 227-813-5 Index No 601-029-00-7 REACH Reg. No 01-2119529223-47-xxxx	0,5 – < 1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	  
Lime (Citrus aurantifolia), ext.	CAS No 8008-26-2 68917-71-5 90063-52-8 EC No 290-010-3 REACH Reg. No 01-2120138646-51-xxxx	0,1 – < 0,5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	   
Piperonal	CAS No 120-57-0 EC No 204-409-7 REACH Reg. No 01-2119983608-21-xxxx	0,1 – < 0,5	Skin Sens. 1B / H317	
Cinnamomum cassia, ext.	CAS No 84961-46-6 8007-80-5 EC No 284-635-0 REACH Reg. No 01-2120105877-51-xxxx	0,1 – < 0,5	Acute Tox. 3 / H311 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317	
p-mentha-1,4(8)-diene	CAS No 586-62-9 EC No 209-578-0 REACH Reg. No 01-2119982325-32-xxxx	0,1 – < 0,5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	  
(-)-pin-2(10)-ene	CAS No 127-91-3 18172-67-3 EC No 242-060-2 REACH Reg. No 01-2119519230-54-xxxx	0,1 – < 0,5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	   

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
p-mentha-1,3-diene	CAS No 99-86-5 EC No 202-795-1 REACH Reg. No 01-2120766853-42- xxxx	0,1 – < 0,5	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Aquatic Chronic 2 / H411	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)



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5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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7.2 Conditions for safe storage, including any incompatibilities

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
DE	benzyl alcohol	100-51-6	MAK	5	22	10	44			va	DFG
DE	benzyl alcohol	100-51-6	AGW	5	22	10	44			va, H, Y	TRGS 900
DE	(R)-p-mentha-1,8-diene	5989-27-5	AGW	5	28	20	112			H, Sh, Y	TRGS 900
DE	D-limonene	5989-27-5	MAK	5	28	20	112				DFG
DE	ethanol	64-17-5	AGW	200	380	800	1.520			Y	TRGS 900

Notation

Ceiling-C

H

Sh

STEL

TWA

va

Y

ceiling value is a limit value above which exposure should not occur

absorbed through the skin

skin-sensitising substances

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours

time-weighted average (unless otherwise specified)

as vapours and aerosols

a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological

limit value (BGW) are adhered to

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ethanol	64-17-5	DNEL	950 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
ethanol	64-17-5	DNEL	343 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
3-ethoxy-4-hydroxy-benzaldehyde	121-32-4	DNEL	49 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
3-ethoxy-4-hydroxy-benzaldehyde	121-32-4	DNEL	98 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
3-ethoxy-4-hydroxy-benzaldehyde	121-32-4	DNEL	7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	DNEL	58,7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	DNEL	16,7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	DNEL	66,7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	DNEL	9,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lime (Citrus aurantiifolia), ext.	8008-26-2 68917-71-5 90063-52-8	DNEL	18,7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Lime (Citrus aurantiifolia), ext.	8008-26-2 68917-71-5 90063-52-8	DNEL	5,34 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lime (Citrus aurantiifolia), ext.	8008-26-2 68917-71-5 90063-52-8	DNEL	185,8 µg/cm ²	human, dermal	worker (industry)	acute - local effects
Piperonal	120-57-0	DNEL	17,6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Piperonal	120-57-0	DNEL	2,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
p-mentha-1,4(8)-diene	586-62-9	DNEL	3,6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
p-mentha-1,4(8)-diene	586-62-9	DNEL	0,52 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
p-mentha-1,4(8)-diene	586-62-9	DNEL	44 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
(-)-pin-2(10)-ene	127-91-3 18172-67-3	DNEL	5,69 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(-)-pin-2(10)-ene	127-91-3 18172-67-3	DNEL	0,8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(-)-pin-2(10)-ene	127-91-3 18172-67-3	DNEL	54 µg/cm ²	human, dermal	worker (industry)	chronic - local effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Propane-1,2-diol	57-55-6	PNEC	260 mg/l	aquatic organisms	freshwater	short-term (single instance)
Propane-1,2-diol	57-55-6	PNEC	26 mg/l	aquatic organisms	marine water	short-term (single instance)



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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Propane-1,2-diol	57-55-6	PNEC	20.000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Propane-1,2-diol	57-55-6	PNEC	572 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Propane-1,2-diol	57-55-6	PNEC	57,2 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Propane-1,2-diol	57-55-6	PNEC	50 mg/kg	terrestrial organisms	soil	short-term (single instance)
Vanillin	121-33-5 84650-63-5	PNEC	0,118 mg/l	aquatic organisms	freshwater	short-term (single instance)
Vanillin	121-33-5 84650-63-5	PNEC	0,012 mg/l	aquatic organisms	marine water	short-term (single instance)
Vanillin	121-33-5 84650-63-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Vanillin	121-33-5 84650-63-5	PNEC	58,22 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Vanillin	121-33-5 84650-63-5	PNEC	5,822 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Vanillin	121-33-5 84650-63-5	PNEC	11,54 mg/kg	terrestrial organisms	soil	short-term (single instance)
3-ethoxy-4-hydroxy-benzaldehyde	121-32-4	PNEC	0,118 mg/l	aquatic organisms	freshwater	short-term (single instance)
3-ethoxy-4-hydroxy-benzaldehyde	121-32-4	PNEC	0,012 mg/l	aquatic organisms	marine water	short-term (single instance)
3-ethoxy-4-hydroxy-benzaldehyde	121-32-4	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
3-ethoxy-4-hydroxy-benzaldehyde	121-32-4	PNEC	15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
3-ethoxy-4-hydroxy-benzaldehyde	121-32-4	PNEC	1,5 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
3-ethoxy-4-hydroxy-benzaldehyde	121-32-4	PNEC	2,923 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	PNEC	7,2 µg/l	aquatic organisms	freshwater	short-term (single instance)
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	PNEC	0,72 µg/l	aquatic organisms	marine water	short-term (single instance)
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	PNEC	1,55 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	PNEC	0,27 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	PNEC	0,027 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	PNEC	0,049 mg/kg	terrestrial organisms	soil	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	14 µg/l	aquatic organisms	freshwater	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	1,4 µg/l	aquatic organisms	marine water	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	1,8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	3,85 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	0,385 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	PNEC	0,763 mg/kg	terrestrial organisms	soil	short-term (single instance)
Lime (Citrus aurantiifolia), ext.	8008-26-2 68917-71-5 90063-52-8	PNEC	5,4 µg/l	aquatic organisms	freshwater	short-term (single instance)
Lime (Citrus aurantiifolia), ext.	8008-26-2 68917-71-5 90063-52-8	PNEC	0,54 µg/l	aquatic organisms	marine water	short-term (single instance)
Lime (Citrus aurantiifolia), ext.	8008-26-2 68917-71-5 90063-52-8	PNEC	2,1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Lime (Citrus aurantiifolia), ext.	8008-26-2 68917-71-5 90063-52-8	PNEC	1,3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Lime (Citrus aurantiifolia), ext.	8008-26-2 68917-71-5 90063-52-8	PNEC	0,13 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Lime (Citrus aurantiifolia), ext.	8008-26-2 68917-71-5 90063-52-8	PNEC	0,29 mg/kg	terrestrial organisms	soil	short-term (single instance)
Piperonal	120-57-0	PNEC	2,5 µg/l	aquatic organisms	freshwater	short-term (single instance)
Piperonal	120-57-0	PNEC	0,25 µg/l	aquatic organisms	marine water	short-term (single instance)
Piperonal	120-57-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Piperonal	120-57-0	PNEC	11,9 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Piperonal	120-57-0	PNEC	1,2 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Piperonal	120-57-0	PNEC	0,84 µg/kg	terrestrial organisms	soil	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
p-mentha-1,4(8)-diene	586-62-9	PNEC	0,634 µg/l	aquatic organisms	freshwater	short-term (single instance)
p-mentha-1,4(8)-diene	586-62-9	PNEC	0,063 µg/l	aquatic organisms	marine water	short-term (single instance)
p-mentha-1,4(8)-diene	586-62-9	PNEC	0,2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
p-mentha-1,4(8)-diene	586-62-9	PNEC	147 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
p-mentha-1,4(8)-diene	586-62-9	PNEC	14,7 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
p-mentha-1,4(8)-diene	586-62-9	PNEC	29,1 µg/kg	terrestrial organisms	soil	short-term (single instance)
(-)-pin-2(10)-ene	127-91-3 18172-67-3	PNEC	1,004 µg/l	aquatic organisms	freshwater	short-term (single instance)
(-)-pin-2(10)-ene	127-91-3 18172-67-3	PNEC	0,1 µg/l	aquatic organisms	marine water	short-term (single instance)
(-)-pin-2(10)-ene	127-91-3 18172-67-3	PNEC	3,26 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(-)-pin-2(10)-ene	127-91-3 18172-67-3	PNEC	0,337 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(-)-pin-2(10)-ene	127-91-3 18172-67-3	PNEC	0,034 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(-)-pin-2(10)-ene	127-91-3 18172-67-3	PNEC	0,067 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.



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Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	bernstein, bräunlich
Odour	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
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Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information

Solvent content	40,53 %
Solid content	12,28 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.



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Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Benzyl alcohol	100-51-6	oral	1.580 mg/kg
Benzyl alcohol	100-51-6	inhalation: vapour	11 mg/l/4h
Benzyl alcohol	100-51-6	inhalation: dust/mist	4,178 mg/l/4h
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	oral	1.220 mg/kg
Cinnamomum cassia, ext.	84961-46-6 8007-80-5	dermal	300 mg/kg
p-mentha-1,3-diene	99-86-5	oral	500 mg/kg

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Contains Lime (Citrus aurantifolia), ext., (R)-p-mentha-1,8-diene, p-mentha-1,4(8)-diene, (-)-pin-2(10)-ene, p-mentha-1,3-diene, Cinnamomum cassia, ext., Piperonal. May produce an allergic reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Harmful to aquatic life with long lasting effects.
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 3, highly hazardous to water (Germany)

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Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Vanillin	121-33-5 84650-63-5	EC50	24 mg/l	aquatic invertebrates	21 d
ethanol	64-17-5	LC50	1.806 mg/l	aquatic invertebrates	10 d
ethanol	64-17-5	ErC50	675 mg/l	algae	4 d
3-ethoxy-4-hydroxy-benzaldehyde	121-32-4	EC50	24 mg/l	aquatic invertebrates	21 d
Benzyl alcohol	100-51-6	LC50	770 mg/l	fish	1 h
Benzyl alcohol	100-51-6	EC50	66 mg/l	aquatic invertebrates	21 d
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	EC50	<0,67 mg/l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	LC50	0,41 mg/l	fish	8 d
p-mentha-1,4(8)-diene	586-62-9	EC50	69 mg/l	microorganisms	3 h
(-)-pin-2(10)-ene	127-91-3 18172-67-3	EC50	326 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Propane-1,2-diol	57-55-6	oxygen depletion	106,8 %	28 d		ECHA
Propane-1,2-diol	57-55-6	carbon dioxide generation	81,7 %	28 d		ECHA
Propane-1,2-diol	57-55-6	DOC removal	98,3 %	28 d		ECHA
ethanol	64-17-5	oxygen depletion	69 %	5 d		ECHA
Benzyl alcohol	100-51-6	oxygen depletion	92 – 96 %	14 d		ECHA
Benzyl alcohol	100-51-6	DOC removal	95 %	21 d		ECHA
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	carbon dioxide generation	58,8 %	14 d		ECHA
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5	oxygen depletion	80 %	28 d		ECHA
Piperonal	120-57-0	oxygen depletion	29 %	2 d		ECHA
p-mentha-1,4(8)-diene	586-62-9	oxygen depletion	81 %	28 d		ECHA

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Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
(-)-pin-2(10)-ene	127-91-3 18172-67-3	oxygen depletion	76 %	28 d		ECHA
p-mentha-1,3-diene	99-86-5	oxygen depletion	30 %	14 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Propane-1,2-diol	57-55-6		-1,07 (20,5 °C)	
ethanol	64-17-5		-0,77	0,6211
3-ethoxy-4-hydroxybenzaldehyde	121-32-4		1,58 (25 °C)	
Benzyl alcohol	100-51-6		1 (20 °C)	
2-ethyl-3-hydroxy-4-pyrone	4940-11-8		2,9 (25 °C)	
(R)-p-mentha-1,8-diene	5989-27-5 68606-81-5		4,38 (pH value: 7,2, 37 °C)	
Lime (Citrus aurantifolia), ext.	8008-26-2 68917-71-5 90063-52-8		3,33 – 7,12	
Piperonal	120-57-0		1,2 (35 °C)	
Cinnamomum cassia, ext.	84961-46-6 8007-80-5		1,51 – 2,89	
(-)-pin-2(10)-ene	127-91-3 18172-67-3		4,425 (25 °C)	
p-mentha-1,3-diene	99-86-5		5,3 (35 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | | |
|------|--|---|
| 14.1 | UN number | not subject to transport regulations |
| 14.2 | UN proper shipping name | not relevant |
| 14.3 | Transport hazard class(es) | not assigned |
| 14.4 | Packing group | not assigned |
| 14.5 | Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user | There is no additional information. |
| 14.7 | Transport in bulk according to Annex II of MARPOL and the IBC Code | The cargo is not intended to be carried in bulk. |

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR. Not subject to RID.

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

Identifier number	9006
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class	9
Number of cones/blue lights	0

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.



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SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
RIPE VAPES - KEY LIME COOKIE	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
ethanol	flammable / pyrophoric		R40	40
(R)-p-mentha-1,8-diene	flammable / pyrophoric		R40	40
(-)-pin-2(10)-ene	flammable / pyrophoric		R40	40
p-mentha-1,3-diene	flammable / pyrophoric		R40	40
Lime (Citrus aurantifolia), ext.	flammable / pyrophoric		R40	40

Legend

R3

1. Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';
 - (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
 - (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.



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Legend

R40

1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
 - metallic glitter intended mainly for decoration,
 - artificial snow and frost,
 - 'whoopie' cushions,
 - silly string aerosols,
 - imitation excrement,
 - horns for parties,
 - decorative flakes and foams,
 - artificial cobwebs,
 - stink bombs.
2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
'For professional users only'.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

Deco-Paint Directive (2004/42/EC)

VOC content	41,36 %
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Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	38,09 %
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Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

none of the ingredients are listed

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 3 highly hazardous to water
(water hazard class)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances	class I	1 – < 5 wt%	0,1 kg/h	20 mg/m ³	3)
5.2.5	organic substances		≥ 25 wt%	0,5 kg/h	50 mg/m ³	3)



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Notation

- 3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 10 (combustible liquids)

National inventories

Country	Inventory	Status
EU	REACH Reg.	not all ingredients are listed

Legend

REACH Reg. REACH registered substances

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level



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Abbr.	Descriptions of used abbreviations
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)



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Abbr.	Descriptions of used abbreviations
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.