



SAFETY DATA SHEET

Set in accordance to Regulation (EC) No. 1907/2006 (REACH), with updated according to Regulation (EC) No. 2015/830	Date: 2018-09-07 Revision date: 2018-09-07 Version: 1
Mixture: CHILLPILL - Spearhead - Power Berries	1 page 16

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

1.1 Product Identifier

Product name: CHILLPILL - Spearhead - Power Berries

Product code: CP_SPB

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

Use: Concentrated aromatic raw material. For personal and manufacturing use in this form or concentration.

Uses advised against: Any use other than the recommended use.

1.3 Details of the supplier of the Safety Data Sheet:

Distributor:

FLAVOR STREET LIMITED
13 Baggot Street Upper, 2nd Floor,
Dublin 4, D04 W7K5, IRELAND
Phone number: +442032894555
info@flavorstreet.ie

E-mail of the responsible person on the safety data sheet: info@flavorstreet.ie

Manufacturer (non-EU): Not Applicable

- 1.4 **Emergency Telephone Number:** In case of emergency contact your local healthcare provider
UK - In England and Wales: NHS 111 - dial 111, In Scotland: NHS 24 - dial 111, In Republic of Ireland: 01 809 2166
FR - +33 1 40 44 30 00 / +33 3 83 22 50 50
DE - +49 30-18412-3460

All list of National appointed bodies (Poison centre) please see:

<http://ec.europa.eu/DocsRoom/documents/5219/attachments/1/translations/en/renditions/native>

SECTION 2: Hazards identification

This product is classified as hazardous therefore classification according to Regulation (EC) No 1272/2008 and its amendments are applicable. Safety Data Sheets, in accordance with Annex II and Article 32 of Regulation EC 1907/2006 (last consolidated Version, including Amendment), have been provided for the product.

2.1 Classification according to Regulation (EC) No 1272/2008 (including amendments):

Hazard class	Hazard category	Hazard statement
Flammable liquid	Category 3	H226
Skin sensitisation	Category 1	H317
Eye irritation	Category 2	H319
Aquatic Chronic	Category 2	H411

2.2 Label elements:



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

Hazard pictogram (s):



Signal word:

Warning

Hazard statement (s):	H226	Flammable liquid and vapour
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation
	H411	Toxic to aquatic life with long lasting effects

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

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.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/national regulations..

Name of the substance should be provided in the label:

EC 224-052-0 (E)-anethole
EC 203-093-8 Methyl cinamate
EC 207-431-5 Eucalyptol
EC 229-778-1 Trans-2-hexen-2-al
EC 227-813-5 D-Limonene
EC 222-908-8 Furaneol R

2.3 Other hazards:

PBT and vPvB – does not apply; SVHC – does not apply; Authorized substances (REACH Annex XIV) – does not apply; Restricted substances (REACH Annex XVII) – does not apply.
Contains volatile flavouring chemicals; breathing these chemicals may lead to lung damage.

2.4 Additional information:

Classification procedure of the mixture was did using available data for the neat substances with the application of relevant concentration limits, in accordance with Regulation (EC) No 1272/2008.

SECTION 3: Composition/information on ingredients



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3.1 Substances

Not applicable

3.2 Mixture: Chemical Identification: Multicomponent mixture of aromatic raw materials.

Hazardous ingredients according to regulation (EC) No 1272/2008 and/or ingredients with occupational exposure limit values.

Substance name / REACH registration No.	CAS / EC (Index) No.	Classification according to Regulation EB Nr.1272/2008	%
Propylene glycol / 01-2119456809-23-xxxx	57-55-6 / 200-338-0	Does not classified	≥ 55 - < 100
Ethanol / 01-2119457610-43-xxxx	64-17-5 / 200-578-6 (603-002-00-5)	Eye Irrit. 2, H319 (Eye Irrit. 2: C ≥ 50 %) Flam. Liq. 2, H225	≥ 10 - < 20
L-menthol / -	2216-51-5 / 218-690-9	Skin Irrit. 2, H315 Eye Irrit. 2, H319	≥ 0 - < 2,5
(E)-anethole / -	4180-23-8 / 224-052-0	Skin Sens. 1B, H317	≥ 0 - < 2,5
Methyl cinamate	103-26-4 / 203-093-8	Skin Sens. 1B, H317	≥ 0 - < 2,5
Eucalyptol / -	470-82-6 / 207-431-5	Flam. Liq. 3, H226 Skin Sens. 1B, H317	≥ 0 - < 2,5
Trans-2-hexen-2-al	6728-26-3 / 229-778-1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	≥ 0 - < 2,5
Allyl hexanoate	123-68-2 / 204-642-4	Acute tox. (oral) 3, H301 Acute tox. (dermal) 3, H311 Acute tox. (inhale) 3, H331 Aquatic Acute 1, H400 (M-1) Aquatic Chronic 2, H411	≥ 0 - < 2,5
D-Limonene ((R)-p-menta-1,8-diene) / -	5989-27-5 / 227-813-5 (601-029-00-7)	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M Acute = 1) Aquatic Chronic 1, H410 (M Chronic = 1)	≥ 0 - < 2,5
2,5-dimethyl-4-hydroxy-3-furanone (Furaneol R)	3658-77-3 / 222-908-8	Skin Sens. 1A, H317 Eye Irrit. 2, H319	≥ 0 - < 2,5

Full text of hazard (H) statements related to the classification is listed in the Section 16.

No REACH registration numbers are provided because the annual tonnages do not require a REACH registration.

SECTION 4: First aid measures

4.1 Description of first aid measures

General Advice: Consult a physician if any symptoms persist. Show this safety data sheet to the doctor in attendance.

Ingestion: DO NOT induce vomiting. Never give anything to an unconscious person. Rinse mouth with water. Get medical advice/attention should symptoms appear.



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Skin contact: Immediately flush skin with plenty of soap and water whilst removing contaminated clothing. Seek medical attention if any allergic reaction or irritation persists.

Eye contact: Immediately flush eyes (holding eyelids apart) with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.

Inhalation: Remove from exposure site to fresh air and keep at rest in a position comfortable for breathing. If breathing has stopped give artificial respiration. Observe for possible delayed reaction. Get medical advice/attention if concerned.

First Aider

Protection: Avoid skin/eye contact/inhalation and ingestion during treatment process

4.2 Most important symptoms and effects, both acute and delayed

General advice: Consult a physician. Show this safety data sheet to medical personnel.

Ingestion: May cause stomach distress, nausea or vomiting. If ingested, immediately call a poison control centre or doctor.

Skin contact: May cause allergic skin reaction, irritation. Symptoms may include redness, drying, dermatitis, itching, defatting and cracking of the skin.

Eye contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Inhalation: May cause mucous membranes and upper respiratory track irritation, respiratory difficulties, cough, increased drowsiness.

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

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable Extinguishing Media: For small (incipient) fires, use media such as "alcohol foam", dry chemical, or carbon dioxide. For large fires, apply water from as far away as possible. Use very large quantities of water applied as mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Unsuitable extinguishing media: strong water jet.

5.2 Special hazards arising from the substance or mixture

During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.



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5.3 Advice for fire-fighters

Wear full protective clothing and self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (EN469 approved or equivalent).

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency measures

6.1.1 For non-emergency personnel

Immediately establish a suitable distance in all directions as leak area.

Only Authorised personnel should enter the leak area, utilising appropriate personal protective equipment.

Ensure adequate ventilation.

Prevent further leakage or spillage if safe to do so.

6.1.2 For emergency responders

Ensure adequate ventilation.

Wear positive pressure self-breathing apparatus.

For details of protective equipment, see section 8.

Remove from all sources of ignition.

Vapours can accumulate in low areas. Beware of vapour accumulation to form explosive concentrations.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

Prevent spills or contaminated rinse water from entering sewers or watercourses.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment

Stop leakage if safe to do so.

In case of small spills, absorb with inert materials such as earth or dry sand then shovel into a chemical waste container.

In case of large spills, dike the spill, if possible.

Place any absorbents in suitable chemical waste container. Call emergency services if necessary.

6.3.2 For cleaning up

Provide adequate ventilation. Avoid contact with skin and eyes.

Do not ingest or inhale.

Absorb the chemical then place in a chemical waste container and dispose of according to local regulations.

6.4 Reference to other sections



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For personal protection, see Section 8.

For disposal of waste from clean-up operations, see Section 13.

SECTION 7: Handling and storage

7.1 Conditions for safe storage, including any incompatibilities Precautions for safe handling

Wear proper protective equipment and avoid contact with skin, eyes, or clothing. Obtain special instructions before use.

Avoid inhalation and ingestion. Avoid inhalation of vapour or mist.

When using this product do not eat, drink or smoke. Wash hands thoroughly after handling this material.

Follow all applicable local regulations for handling and storage.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of reach of children.

Store in a well ventilated place. Keep container tightly closed (air sensitive), in a cool dry place.

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/ lighting] equipment.

Use non-sparking tools. Take action to prevent static discharges.

Containers that are opened must be carefully resealed and kept upright to prevent leakage.

Keep away from heat and sources of ignition.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational Exposure Limits: No applicable for the product.

Compositions: Ingredients with derived OEL:

Propylene glycol (57-55-6): 8 hours – 150 ppm; 474 mg/m³ (UK, Workplace exposure limits)

Ethanol (64-17-5): 8 hours – 1000 ppm; 1900 mg/m³ (Denmark, Finland, France, UK, Poland)

500 ppm; 960 mg/m³ (Germany AGS, Sweden, Switzerland).

Ethanol (64-17-5): 15 min – 1000 ppm; 1900 mg/m³ (Germany AGS, Sweden, Switzerland, Spain).

2000 ppm; 3800 mg/m³ (Denmark); 1300 ppm; 2500 mg/m³ (Finland); 5000 ppm; 9500 mg/m³ (France).

D-Limonene (5989-27-5): 8 hours – 25 ppm; 140 mg/m³ (Finland,); 5 ppm; 28 mg/m³ (Germany AGS).

D-Limonene (5989-27-5): 15 min – 50 ppm; 280 mg/m³ (Finland,); 20 ppm; 110 mg/m³ (Germany AGS)

8.1.2 Biological Limit Value: No applicable for the product.

Compositions: Ingredients with derived BLV: No data available

8.1.3 PNECs and DNELs: No applicable for the product.

Compositions: Ingredients with derived DNEL/PNEC:

Propylene glycol (57-55-6)	Derived no-effect limits (DNEL): Inhale – 168 mg /m ³ (workers, long-term – systemic exposure)
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	Inhale – 10 mg /m ³ (workers, long-term – local exposure) Oral – 50 mg/m ³ (workers, long-term – systemic exposure) Oral – 10 mg/m ³ (workers, long-term – local exposure) Predicted no-effect concentration (PNEC): Water: marine - 26 mg/L, fresh - 260 mg/L Sediment: marine - 57,2 mg/kg, fresh - 572 mg/kg Intermediate release (fresh water) 183 mg/L, STP 20000 mg/L, Soil 50 mg/kg
Ethanol (64-17-5)	Derived no-effect limits (DNEL): Inhale – 950 mg /m ³ (workers, long-term – systemic exposure) Dermal – 343 mg /kg (workers, long-term – systemic exposure) Inhale – 114 mg/m ³ (general population, , long-term – systemic exposure) Dermal – 206 mg /kg (general population, long-term – systemic exposure) Oral – 87 mg/kg (general population, long-term – systemic exposure) Predicted no-effect concentration (PNEC): Water: marine – 0,79 mg/L, fresh – 0,96 mg/L Sediment: marine – 2,9 mg/kg, fresh – 3,6 mg/kg Intermittent releases 2,75 mg/L, STP 580 mg/L, Soil 0,63 mg/kg
L-menthol (2216-51-5)	Derived no-effect limits (DNEL): Inhale – 132 mg /m ³ (workers, long-term – systemic exposure) Inhale – 10 mg /m ³ (workers, long-term – local exposure) Dermal – 19 mg /kg (workers, long-term – systemic exposure) Inhale – 33 mg/m ³ (general population, long-term – systemic exposure) Dermal – 9,4 mg /kg (general population, long-term – systemic exposure) Oral – 9,4 mg/kg (general population, long-term – systemic exposure) Predicted no-effect concentration (PNEC): Water: marine – 1,56 µg/L, fresh 15,6 µg/L Sediment: marine – 28,9 µg/kg, fresh – 289 µg/kg Intermediate release (fresh water) 156 µg/L, STP 2,37 mg/L, Soil 48,4 µg/kg
(E)-anethole (4180-23-8)	Derived no-effect limits (DNEL): Inhale – 26,45 mg /m ³ (workers, long-term – systemic exposure) Dermal – 7,5 mg /kg (workers, long-term – systemic exposure) Inhale – 6,5 mg/m ³ (general population, long-term – systemic exposure) Dermal – 3,75 mg /kg (general population, long-term – systemic exposure) Predicted no-effect concentration (PNEC): Water: marine – 0,972 mg/L, fresh – 0,007 mg/L
Methyl cinamate (103-26-4)	Derived no-effect limits (DNEL): Inhale – 28,2 mg /m ³ (workers, long-term – systemic exposure) Dermal – 4 mg /kg (workers, long-term – systemic exposure) Inhale – 6,96 mg/m ³ (general population, long-term – systemic exposure) Dermal – 2 mg /kg (general population, long-term – systemic exposure) Oral – 2 mg/kg (general population, long-term – systemic exposure) Predicted no-effect concentration (PNEC): Water: marine – 0,276 µg/L, fresh 2,76 µg/L Sediment: marine – 7,4 µg/kg, fresh – 74 µg/kg Intermediate release (fresh water) 27,6 µg/L, STP 1,81 mg/L, Soil 13 µg/kg
Eucalyptol (470-82-6)	Derived no-effect limits (DNEL): Inhale – 7,05 mg /m ³ (workers, long-term – systemic exposure) Dermal – 2 mg /kg (workers, long-term – systemic exposure) Inhale – 1,74 mg/m ³ (general population, long-term – systemic exposure)



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	Dermal – 1 mg /kg (general population, long-term – systemic exposure) Oral – 600 mg/kg (general population, long-term – systemic exposure) Predicted no-effect concentration (PNEC): Water: marine – 5,7 µg/L, fresh 57 µg/L Sediment: marine – 0,142 mg/kg, fresh – 1,425 mg/kg Intermediate release (fresh water) 0,57 mg/L, STP 10 mg/L, Soil 0,25 mg/kg
Trans-2-hexen-2-al (6728-26-3)	Derived no-effect limits (DNEL): No data Predicted no-effect concentration (PNEC): No data
Allyl hexanoate (123-68-2)	Derived no-effect limits (DNEL): Inhale – 15 mg /m ³ (workers, long-term – systemic exposure) Dermal – 4,3 mg /kg (workers, long-term – systemic exposure) Inhale – 3,7 mg/m ³ (general population, long-term – systemic exposure) Dermal – 2,1 mg /kg (general population, long-term – systemic exposure) Oral – 2,1 mg/kg (general population, long-term – systemic exposure) Predicted no-effect concentration (PNEC): Water: marine – 0,012 µg/L, fresh 0,117 µg/L Sediment: marine – 0,446 µg/kg, fresh – 4,46 µg/kg Intermediate release (fresh water) 1,17 µg/L, STP 10 mg/L, Soil 0,825 µg/kg
D-Limonene (5989-27-5)	Derived no-effect limits (DNEL): Inhale – 66,7 mg /m ³ (workers, long-term – systemic exposure) Dermal – 9,5 mg /kg (workers, long-term – systemic exposure) Inhale – 16,6 mg/m ³ (general population, , long-term – systemic exposure) Dermal – 4,8 mg /kg (general population, long-term – systemic exposure) Oral – 4,8 mg/kg (general population, long-term – systemic exposure) Predicted no-effect concentration (PNEC): Water: marine – 1,4 µg/L, fresh 14 µg/L Sediment: marine – 0,385 mg/kg, fresh – 3,85 mg/kg STP 1,8 mg/L, Soil 0,763 mg/kg
2,5-dimethyl-4-hydroxy-3-furanone (3658-77-3)	Derived no-effect limits (DNEL): No data Predicted no-effect concentration (PNEC): No data

Data provided according to valid list and/or based on manufacturers / registrants data on chemicals substances at the SDS compiling time. Based on our knowledge, the chemical, physical and toxicological properties of the mixture by self, not been thoroughly investigated.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Working time an open-ended (till 480 minutes/shift, 5 shifts per week). Ensure that concentration in the air be below as permissible exposure limit values. Use the proper exhaust ventilation. Arrange regular air conditions control of work place. Ensure that eye wash stations and safety showers are close to the workstation location. Wash hands before breaks and immediately after handling product.

8.2.2 Individual protection measures, such as personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-



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face respirator type ABEK (EN 14387) respirator cartridge as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).
Use only respiratory protection that conforms to EN149 as a minimum standard.

Eye protection: Face shield and safety glasses or goggles EN166 as a minimum standard.

Skin protection: Handle with gloves. The selected protective gloves material must be resistant to the product effects as well to have to satisfy the specifications of EU Directive 89/686/EEC derived from it (EN374 as minimum standard). Suitable material for long-term use is butyl (nitrile rubber) - thickness 0,6 – 0,8 mm, breakthrough time > 480 min. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Provide good personal hygiene after handling.
Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.
Do not eat, drink or smoke whilst using this product

8.2.3 Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewers or watercourses. Emission from ventilation and/or manufacturing equipment must be tested at least annually to make sure the compliance to the environmental legislation.

Air: The impact on air must be carried in accordance with dust particle emissions calculation methodology and local/regional/national legislation.

Water: The impact on water must be carried in accordance with procedure for the discharge of waste water and the methods / criteria for determining the inputs into the environment.

Soil: The impact on soil must be carried in accordance with procedure for the discharge of waste water and the methods / criteria for determining the inputs into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Clear colourless to light yellow
Odour:	Strong
Odour threshold:	No data available
pH:	No data available
Melting/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	> 23 – 60 °C



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Evaporation rate:	No data available
Flammability:	Not applicable
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	No data available
Vapour density:	No data available
Relative density (water=1):	1.0313 +/- 0.01 @ 20°C
Solubility(ie's):	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	Not applicable
Oxidising properties:	Not applicable
Other information:	No data available

SECTION 10: Stability and reactivity

- 10.1 Reactivity:** No decomposition processes, exothermic reactions occur if the substance is used according to the intended purpose.
- 10.2 Chemical stability:** Stable under normal storage/handling conditions
- 10.3 Possibility of hazardous reactions:** Does not hazardous reactions at the recommended use/storage conditions.
- 10.4 Conditions to avoid:** Keep away from heat/sparks/open flames/hot surfaces.
- 10.5 Incompatible materials:** Insoluble in water, strong acids, acid chlorides, acid anhydrides, strong oxidizing agents.
- 10.6 Hazardous decomposition products:** No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

According to CLP regulation the mixture does met classification criteria as a hazard to human health. Some of the ingredients of the mixture does met classification criteria as a hazardous to human health and/or reach cut-of value.

Acute toxicity: The mixture according to the criteria of CLP regulation (Annex I, part 3.1.) does not classified as acute toxic/harmful by oral, dermal and/or inhalation. Calculated ATE_{mix} (oral) >2000. Calculated ATE_{mix} (dermal) >2000. Calculated ATE_{mix} (inhale, vapours) >20. Based on available data, the classification criteria are not met. Calculation method based on the available LD/LC50 values or on classification category of related substances, using the conversion to the acute toxicity estimation and ATE_{mix} calculation method.

Compositions: Ingredients related to Acute toxicity:

Trans-2-hexen-2-al (6728-26-3): LD50 (oral) >300 - <2000 mg/kg; LD50 (dermal) >200 - <1000 mg/kg.

Allyl hexanoate (123-68-2): LD50 (oral) >50 - <300 mg/kg; LD50 (dermal) >200 - <1000 mg/kg; LC50 (inhale, vapours)



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>2 - <10 mg/l.

Skin corrosion/irritation: The mixture according to the criteria of CLP regulation (Annex I, part 3.2.) does not classified as skin corrosion / irritation. Based on available data, the classification criteria are not met..

Serious eye damage/ irritation: The mixture according to the criteria of CLP regulation (Annex I, part 3.3.) does not classified as serious eye damage. Based on available data, the classification criteria are not met. However the mixture does classify as serious eye irritation. Based on available data, the classification criteria are fulfilled.

Skin sensitization: The substance according to the criteria of CLP regulation (Annex I, part 3.4.) does classify as skin sensitizer. Based on available data, the classification criteria are fulfilled.

Respiratory sensitization: The substance according to the criteria of CLP regulation (Annex I, part 3.4.) does not classified as respiratory sensitizer. Based on available data, the classification criteria are not met.

Mutagenicity: The substance according to the criteria of CLP regulation (Annex I, part 3.5.) does not classified as mutagenic. Based on available data, the classification criteria are not met.

Carcinogenicity: The substance according to the criteria of CLP regulation (Annex I, part 3.6.) does not classified as carcinogenic. Based on available data, the classification criteria are not met.

Reproductive toxicity: The substance according to the criteria of CLP regulation (Annex I, part 3.7.) does not classified as reproductive toxic. Based on available data, the classification criteria are not met.

Development toxicity: The substance according to the criteria of CLP regulation (Annex I, part 3.7.) does not classified as toxic for development. Based on available data, the classification criteria are not met.

STOT SE: The substance according to the criteria of CLP regulation (Annex I, part 3.8.) does not classified as specific target organ toxic (single exposure). Based on available data, the classification criteria are not met.

STOT RE: The substance according to the criteria of CLP regulation (Annex I, part 3.9.) does not classified as specific target organ toxic (repeated exposure). Based on available data, the classification criteria are not met.

Aspiration toxicity: The substance according to the criteria of CLP regulation (Annex I, part 3.10.) does not classified as hazard for aspiration. Based on available data, the classification criteria are not met.

11.2 Other information:

Symptoms related to the physical, chemical and toxicological characteristics and delayed and immediate effects as well as chronic effects from short and long-term exposure:

Ingestion may provoke the following symptoms; Epigastric pain, Nausea, Vomiting, Dizziness, Muscle weakness, tachycardia, Cyanosis, Delirium, Convulsions, Renal Damage, Oedema. More information on exposure as well as symptoms is provided in section 4 of SDS.

This preparation has not been subjected to toxicological testing as an entity, but has been blended from materials with established toxicological biographies. In view of the difficulty of using current standard toxicological evaluation techniques to predict potential hazards to susceptible individuals or arising from unforeseen potentiation, this preparation should be considered and handled as if it displayed health hazards and treated in consequence with all possible precaution.

SECTION 12: Ecological information

12.1. Eco toxicity

Aquatic Acute: The mixture according to the criteria of CLP regulation (Annex I, part 4.1.) does not classified as Aquatic Acute. Based on available data, the classification criteria are not met.



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Aquatic Chronic: The mixture according to the criteria of CLP regulation (Annex I, part 4.1.) does classify as toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are fulfilled.

Composition: Ingredients related to Aquatic toxicity:

D-Limonene (5989-27-5)	Fish: LC50: > 0,1 - < 1 mg/l (96 h.); NOEC/EC10: > 0,001 - < 0,01 (rapidly degradable) Invertebrates: EC50: >0,1 - < 1 mg/L (96 h.); NOEC/EC10: > 0,001 - < 0,01 (rapidly degradable) Algae: ErC50: >0,1 - < 1 mg/L (72 h.); NOEC/EC10: > 0,001 - < 0,01 (rapidly degradable)
Trans-2-hexen-2- al (6728-26-3)	Fish: LC50: > 1 (96 h.); NOEC/EC10: > 0,01 - < 0,1 (rapidly degradable) Invertebrates: EC50: > 1 mg/L (96 h.); NOEC/EC10: > 0,01 - < 0,1 (rapidly degradable) Algae: ErC50: > 1 mg/L (72 h.); NOEC/EC10: > 0,01 - < 0,1 (rapidly degradable)
Allyl hexanoate (123-68-2)	Fish: LC50: > 0,1 - < 1 mg/l (96 h.); .); NOEC/EC10: > 0,01 - < 0,1 (rapidly degradable) Invertebrates: EC50: >0,1 - < 1 mg/L (96 h.); NOEC/EC10: > 0,01 - < 0,1 (rapidly degradable) Algae: ErC50: >0,1 - < 1 mg/L (72 h.); NOEC/EC10: > 0,01 - < 0,1 (rapidly degradable)

12.2. Persistence and degradability

No further relevant information on the mixture are available. The substances in the mixture are considered as readily degradable.

12.3. Bioaccumulative potential

No further relevant information on the mixture are available. The substances in the mixture are considered as non bioaccumulative.

12.4. Mobility in soil

No further relevant information on the mixture are available.

12.5. Results of PBT and vPvB assessment

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with Annexe XIII of the REACH regulations EC 1907/2006.

12.6. Other adverse effects

No significant effects or critical hazards know.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Residual wastes

Dispose of in accordance with local/national regulations.

Avoid disposing into drainage systems and into the environment.

This combustible material may be burned in a chemical incinerator equipped with afterburner and scrubber, but exert extra care in igniting as this material is flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to a dispose of this material.

13.1.2 Contaminated containers and packaging

Dispose of soiled containers in accordance with local/national regulations.

13.2 Other information: None

SECTION 14: Transport information



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For the product does apply requirements and classification of transport of dangerous goods (IMDG/ADN, IATA, ADR/RID).

	ADR / RID	ADNR / IMDG	IATA
14.1. UN number	1197	1197	1197
14.2. UN proper shipping name	EXTRACTS, FLAVOURING, LIQUID	EXTRACTS, FLAVOURING, LIQUID	EXTRACTS, FLAVOURING, LIQUID
14.3. UN Transport hazards class (-es)	3	3	3
14.4. Packing group	III	III	III
14.5. Label	3		
14.6. Environmental hazards	YES (Environmentally hazardous material)	YES (Environmentally hazardous material)	YES (Environmentally hazardous material)
14.7. Special Precautions for user	601 640E		
Transport in bulk according to Annex II of MARPOL 73/8 and the IBC Code	Not applicable		

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Authorisations: Not applicable
Restrictions on use: Not applicable

EU regulations

The consolidated version of the Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
The consolidated version of the Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation)
Commission Regulation (EU) 2015/830 (Safety data sheet)
Council Regulation (EC) No 440/2008 (test methods)
Regulation (EU) 2016/425 on personal protective equipment (PPE)
Directive 2012/18/EU (Seveso III)
Directive 94/33/EEB (protection of young people)
Directive 2014/40/EU (Tobacco products)
European Agreement concerning the International Carriage of Dangerous Goods (ADR/RID; ADNR/IMDG; IATA)
European List of waste (LoW)

Note: – Respectively the latest version, including all amendment and corrections.

France regulations

Decree No. 2012-746 of May 9, 2012 setting binding limit values for occupational exposure to certain chemicals – as above.

Decree No. 2009-1570 of 15 December 2009 on the control of chemical hazards in the workplace – as above.

Decree No. 2014-128 of 14 February 2014 on regulatory provisions relating to mandatory declaration of hazardous mixtures.

Germany regulations

German act governing protection from hazardous substances (Chemicals Act/ Chemikaliengesetz- ChemG), as amended by the notice of August 28, 2013 (BGBl. I S. 3498): Not applicable.



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Hazardous Substances Ordinance (Gefahrstoffverordnung - GefStoffV) of 26 November 2010 (BGBl. I p. 1643) : Not applicable.

Technical Rule for Hazardous Substances (TRGS) No. 900, January 2006 (Technische Regeln für Gefahrstoffe) : Not applicable.

Technical Rule for Hazardous Substances (TRGS) No. 900, January 2006 (Technische Regeln für Gefahrstoffe) : Not applicable.

Technical Rules for Hazardous Substances (TRGS) No. 510, January 2013 (Technische Regeln für Gefahrstoffe) : Not applicable.

List of MAK and BAT: MAK- und BAT-Werte-Liste 2014: Maximale Arbeitsplatzkonzentrationen und Biologische Arbeitsstofftoleranzwerte: Not applicable.

Wassergefährdungsklasse (water hazard class, Germany): WGK 1 calculated classification in Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Annex 2).

Technical Instructions on Air Quality Control" (Technische Anleitung zur Reinhaltung der Luft) "TA Luft" 2002:

- : Total dust: Not applicable
- : Inorganic substances in powdered form: Not applicable
- : Inorganic substances in vapour or gaseous form: Not applicable
- : Organic Substances: Not applicable
- : Carcinogenic substances: Not applicable
- : Mutagenic: Not applicable
- : Toxic to reproduction: Not applicable

UK regulations

EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended). Health and Safety Executive, Second edition, published 2011.

The Control of Substances Hazardous to Health Regulations 2002 (as amended).

15.2 Chemical Safety Assessment

In accordance with Regulation (EC) 1907/2006 (REACH) Article 14 a Chemical Safety Assessment not carried out (does not require for the mixtures).

SECTION 16: Other information

16.1. Indication of changes: First edition. Revision: 2018-09-07. Version: 1

16.2. Used method for classification: The mixture was classified based on chemical – physical properties and using data available for the neat substances with the application of relevant concentration limits, in accordance with Regulation (EC) No 1272/2008.

16.3. Relevant identified uses of the substance or mixture: Product only intended to industrial use for electronic cigarettes liquids.

16.4. Abbreviations and acronyms

ACGIH American Conference of Industrial Hygienists

ADR/RID European agreement concerning the international carriage of dangerous goods by Road/ Rail.

PPE Personal protective equipment

CAS Chemical Abstracts Service

CLP Regulation of classification, labelling and packaging (EB) No. 1272/2008

DNEL The derived no-effect level



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EC50 Term half maximal effective concentration
ECHA European Chemicals Agency
EINECS European Inventory of Existing Commercial chemical Substances
EWC European Waste Catalogue
ERC Environmental Release Categories
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods
LTEL Long Term Exposure Limit
LC50 Median lethal dose
MS Member states
NTP Nacional toxicity program
OELV Occupational Exposure Limit Values
OSHA Occupational Safety and Health Administration
PBT Persistent Bioaccumulative and Toxic substances
PNEC Predicted No Effect Concentration
RE repeated exposure
REACH Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
SCOEL Scientific Committee on Occupational Exposure Limit
SDS Safety data sheet
SE single exposure
STP Sewage treatment plant
STOT Specific target organ toxicity
TLV–TWA Threshold limit value - Time weighted average
STEL Short-term exposure limit
VLE Value Limit Exposure
vPvB Very persistent and very bioaccumulative

16.5. Literature references

European chemicals bureau (ECB), European chemicals agency (ECHA), European Agency for safety and health at work (OSHA), European food safety agency (EFSA), Organisation for economic co-operation and development (OECD), Germany IFA (GESTIS), Swedish Chemicals Agency (Kemi), The International Labour Organization (ILO), TOXNET and etc. databases and public provided data.

16.6. Full list of provided (section 2 and/or 3) hazard statements (H) for danger indications

Flammable liquids, Category 2	H225	Highly flammable liquid and vapour
Flammable liquids, Category 3	H226	Flammable liquid and vapour
Acute toxicity (oral), Category 3	H301	Toxic if swallowed
Acute toxicity (oral), Category 4	H302	Harmful if swallowed
Acute toxicity (dermal), Category 3	H311	Toxic in contact with skin
Skin irritation, Category 2	H315	Causes skin irritation
Skin sensitisation, Category 1	H317	May cause an allergic skin reaction
Serious eye irritation, Category 2	H319	Causes serious eye irritation
Acute toxicity (inhalation), Category 3	H331	Toxic if inhaled
Aquatic Acute, Category 1	H400	Very toxic to aquatic life.
Aquatic Chronic, Category 1	H410	Very toxic to aquatic life with long lasting effects.
Aquatic Chronic, Category 2	H411	Toxic to aquatic life with long lasting effects.

16.7. Information on trainings

Workers/users shall be trained / introduced with the provided relevant hazard / safety information.



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16.8. Disclaimer

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The information in this Safety Data Sheet (SDS) is to the best of our knowledge true and accurate but all data instructions, recommendations and/or suggestions are made without guarantee.

Since the use of this information and the conditions of use of the product are not within the control of DISTRIBUTOR, it is the user's obligation to determine conditions of safe use of the product.

This product should be store, handled and used in accordance with good industrial hygienic practices and in conformity with any legal regulation. The above information is based on the present state of our knowledge of the product at the time of publication. The user must satisfy himself that the product is entirely suitable for his purpose.