










Section 1: Identification	
1.1 Product Identification	
Product name	Verbena, essential oil Product number E1045
Biological definition	The volatile oil steam distilled from the leaves of Thymus Hiemalis.
INCI Name	Thymus Hiemalis Leaf Oil
Trade name	-
Organic	No CAS - EC -
1.2 Area of use	
Area of use	This substance is used in the following products: washing & cleaning products, biocides (e.g. disinfectants), air care products, polishes and waxes, perfumes and fragrances and cosmetics and personal care products.
Avoid to use	See section 2.
1.3 Details of the supplier of the safety data sheet	
Company Address	Opella AB  (+46) 08-12151215  info@opella.se Garvargatan 7  (+46) 070 483 66 26  www.opella.se 112 21 Stockholm
1.4 Emergency contacts	
Contact	Jonas Persson  (+46) 08-12151215  (+46) 070 483 66 26

Section 2: Hazards Identification	
2.1 Classification of the substance or mixture	
EG 1272/2008 (CLP)	Eye Dam. 1 Aquatic Chr. 2 Skin Irrit. 2 Skin Sen. 1
2.2 Label elements	
GHS Label	  
Signal word	- GHS05 GHS07 - GHS09 -
Hazard statement	Danger H318 Causes serious eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H411 Toxic 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. P302+P352 IF ON SKIN: Wash with plenty of water/... P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P311 Call a POISON CENTER/ doctor/...
Supplementary precautionary statements	-

2.3 Other hazards

Adverse physico-chemical properties	Combustible but should not self-ignite.
Adverse effects on human health	See section 2.2

Section 3: Composition of Ingredients

3.1 Substances

Identification	Volym %	EC number	CAS number	Classification CLP
Citral	70,00%	226-394-6	5392-40-5	Skin Irrit. 2 - H315; Skin Sens. 1B - H317; Eye Irrit. 2 - H319
Geraniol	7,00%	203-377-1	106-24-1	Skin Irrit. 2 - 315; Skin Sens. 1B - H317; Eye Dam. 1 - H318
Citronellal	4,000%	203-376-6	106-23-0	Skin Irrit. 2 - H315; Skin Sens. 1B - H317; Eye Irrit. 2 - H319
Limonene	4,00%	227-813-5	5989-27-5	Flam. Liq 3 - H226; Skin Irrit. 2 - H315; Asp Tox. 1 - H304; Skin Sens. 1 - H317; Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410
Citronellol	0,25%	203-375-0	106-22-9	Skin Irrit. 2 - H315; Skin Sens. 1B - H317; Eye Irrit. 2 - H319
Linalool	0,30%	201-134-4	78-70-6	Skin Irrit. 2 - 315; Skin Sens. 1B - H317; Eye Irrit. 2 - H319
α-Pinene	0,1%	201-291-9	80-56-8	Flam. Liq 3 - H226; Skin Irrit. 2 - H315; Skin Sens. 1 - H317; Asp Tox. 1 - H304
β-Pinene	0,2%	204-872-5	127-91-3	Flam. Liq 3 - H226; Skin Sens. 1 - H317; Asp Tox. 1 - H304; Aquatic Chronic 1 - H410
Sabinene	0,2%	222-212-4	3387-41-5	Flam. Liq 3 - H226; Asp Tox. 1 - H304
Myrcene	0,1%	204-622-5	123-35-3	Flam. Liq 3 - H226; Asp Tox. 1 - H304; Skin Irrit. 2 - 315; Eye Irrit. 2 - H319; Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410
Methyleugenol	0,0%	202-223-0	93-15-1	Acute Tox. 4 - H302; Muta. 2 - H341; Carc. 2 - H351

3.2 Mixtures

Identification	Volym %	CLP	Not in use	Not in use	Not in use
-	-	-	-	-	-

Section 4: First Aid Measures

4.1 Descriptions of first aid measures

General information	See categories below.
Inhalation	Get medical attention immediately. Remove from exposure site to fresh air, keep at rest, and obtain medical attention.
Ingestion	Rinse mouth with water and obtain medical attention. Do not induce vomiting.
Skin contact	Remove contaminated clothes. Wash thoroughly with soap and water. Contact physician if irritation persists.
Eye contact	Flush immediately with water. Contact physician if symptoms persist.
PPE for assisting person	-

4.2 Most important symptoms & effects

-

4.3 Identification of any immediate medical or special treatment required
-

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Section 5: Fire Fighting Measures

5.1 Extinguishing material

Use CO₂, chemical powder or foam.

Do not use H₂O

5.2 Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3 Advice for fire-fighters

Wear appropriate protective clothing and positive-pressure self-contained breathing apparatus (SCBA).

Section 6: Accidental Release Measures

6.1 Personal precautions

Ensure adequate ventilation of the working area and wear suitable protective equipment. Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Do not discharge into drains, water courses or onto the ground. Dispose in line with applicable regulations.

6.3 Methods and material for containment and cleaning up

Contain spillage immediately by use of sand or inert powder. Avoid excessive inhalation of vapours. Dispose in line with applicable regulations.

6.4 References to other sections

See section 8 and 13.

Section 7: Handling and Storage

7.1 Precautions for safe-handling

Handle in accordance with good hygiene and safety practice. Store in original packages in areas with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product container tightly closed, in a dry, ventilated area. Keep away from potential sources of ignition and protected from light. Maintain limited contact with oxygen.

7.3 Specific end use

N/A

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Suitable technical controls Use areas with adequate ventilations.

Eye protection



Use eye protection / face protection

Hand protection



Use protective gloves

Respiratory equipment

Use areas with adequate ventilations.

Hygiene measures

Wash hands with soap and water after handling of material.

Section 9: Physical and Chemical Properties

9.1 Physical and chemical properties

Appearance	Colourless - yellow
Odour	Fresh, citrus, sweet
PH	-
Melting point	-
Boiling point	-
Flash point	69°C
Relative density	0,884 - 0,897 @ 20°C
Solubility in water	Insoluble in water.

9.2 Other information

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Section 10: Stability and Reactivity

10.1 Reactivity

No hazardous reaction if stored and handled as prescribed.

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility if hazardous reactions

No.

10.4 Conditions to avoid

Storage at high temperatures. Do not store above 25°C.

10.5 Incompatible materials

Strong oxidising substances.

10.6 Hazardous decomposition products

Under fire conditions the product will produce a mixture of irritating fumes, smoke and carbon monoxide.

Section 11: Toxicological Information

11.1 Toxicological effects

Acute toxicity - oral	No data
Acute toxicity - dermal	No data
Acute toxicity - inhalation	No data
Respiratory or skin sensitivity	H315 Causes skin irritation (Skin Irrit. 2)
Eye damage or irritation	H318 Causes serious eye damage (Eye Dam. 1)
Germ cell mutagenicity	No data
Carcinogenicity	No data
Reproductive toxicity	No data
STOT - single exposure	No data
STOT - repeated exposure	No data
Other information	No data

Section 12: Ecological Information

12.1 Toxicity

H411 Toxic to aquatic life with long lasting effects (Aquatic Chronic 2)

12.2 Persistence and degradability

This material is considered readily biodegradable, therefore does not fulfil the criteria for persistence.

12.3 Bio- accumulative potential

Bio- accumulation potential.

12.4 Mobility in soil

This material is considered readily biodegradable, therefore simulation tests in surface water, sediment and soil are not required in accordance with column 2 of REACH Annex IX.

12.5 Results of PBT and VPVB assessment

This substance does not meet the PBT/vPVB criteria of REACH, Annex XIII.

12.6 Other adverse effects

Do not allow product to enter streams, sewers or other waterways.

Section 13: Disposal Considerations

13.1 Waste treatments methods

Always recover spilled product. Discard waste material with authorized waste management services. Act in accordance with applicable regulations.

Section 14: Transportation Information

Transport information	Environmental Hazardous Substance, Liquid N.O.S
UN-nummer	UN 3082
Transport hazard class	Class 9, ID 90
Packing group	Pk Gp III
Environmental hazards	See section 2 and 12.
Special precautions	-

Section 15: Regulatory Information

15.1 Product specific safety, health and environmental regulations

EU directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.
Statutory instruments	-
Approved code of practice	-
Other EU directives	Council Directive 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations.

15.2 Chemical safety assessment

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Section 16: Other Information

16.1 Abbreviations & acronyms

INCI	International Nomenclature of Cosmetic Ingredients
CAS	Chemical Abstract Service.
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
STOT	Specific Target Organ Toxicity
EINECS	European Inventory of Existing Commercial Chemical Substances
CLP	CLP EU regulation (Classification, labelling and packaging)
VOC	Volatile Organic Compounds.

16.2 Disclaimer

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16.3 Document revision

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2021-03-01	Created