











| Section 1: Identification | | | | | |
|--|--|--|---------------------|---|--|
| 1.1 Product Identification | | | | | |
| Product name | Mandarin, essential oil | Product number | E1028 | | |
| Biological definition | Citrus Nobilis Peel Oil expressed is an essential oil expressed from the epicarps of the Mandarin, Citrus Nobilis, Rutaceae | | | | |
| INCI Name | Citrus Nobilis Peel Oil | | | | |
| Trade name | - | | | | |
| Organic | Yes | CAS | 84929-38-4 | EC | 284-521-0 |
| 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 | | | | |
| Avoid to use | See section 2. | | | | |
| 1.3 Details of the supplier of the safety data sheet | | | | | |
| Company Address | Opella AB Garvargatan 7 112 21 Stockholm |  | (+46) 08-12151215 |  | info@opella.se |
| | |  | (+46) 070 483 66 26 |  | www.opella.se |
| 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) | Flam. Liq. 3 | Skin Sen. 1 | | | |
| | Asp. Tox 1 | Aquatic Chr. 2 | | | |
| | Skin Irrit. 2 | | | | |
| 2.2 Label elements | | | | | |
| GHS Label |  | - |  |  |  |
| | GHS02 | - | GHS07 | GHS08 | GHS09 |
| Signal word | Danger | | | | |
| Hazard statement | H226 Flammable liquid and vapour H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. | | | | |
| Precautionary statements | P262 Do not get in eyes, on skin, or on clothing. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/... P331 Do NOT induce vomiting. P501 Dispose of contents/container to ... | | | | |
| Supplementary precautionary statements | - | | | | |

2.3 Other hazards

| | |
|-------------------------------------|--|
| Adverse physico-chemical properties | Combustible but should not self-ignite. |
| Adverse effects on human health | Skin contact may cause irritation/sensitization. |

Section 3: Composition of Ingredients

3.1 Substances

| Identification | Volym % | EC number | CAS number | Classification CLP |
|----------------|---------|-----------|------------|--|
| Limonene | 70-80% | 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 |
| γ-Terpinene | 15-20% | 202-794-6 | 99-85-4 | Flam. Liq 3 - H226; Asp Tox. 1 - H304 |
| Pinenes | 7,0% | 201-291-9 | 80-56-8 | Flam. Liq 3 - H226; Acute Tox. 4 - H302; Asp Tox. 1 - H304; Skin Irrit. 2 - 315; Skin Sens. 1 - H317; Aquatic Acute 1 - H400 |
| Myrcene | 1-4% | 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 |
| Linalool | 0,5-1% | 201-134-4 | 78-70-6 | Skin Irrit. 2 - 315; Skin Sens. 1B - H317; Eye Irrit. 2 - H319 |

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

-

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 | Orange - red |
| Odour | Citrus mandarin |
| PH | - |
| Melting point | - |
| Boiling point | 170 + - 10 |
| Flash point | 48°C |
| Relative density | 0,841 - 0,851 @ 20°C |
| Solubility in water | Insoluble in water. |

9.2 Other information

-

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 | Acute oral toxic (LD50: 5000 mg/kg) |
| 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 | No data |
| Germ cell mutagenicity | No data |
| Carcinogenicity | No data |
| Reproductive toxicity | No data |
| STOT - single exposure | No data |
| STOT - repeated exposure | No data |
| Other information | H304 May be fatal if swallowed and enters airways (Asp. Tox. 1) |

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 | Extracts, Aromatic Liquid NOS |
| UN-nummer | UN 1169 |
| Transport hazard class | Class 3, ID 30 |
| 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

| | |
|--|---|
| | - |
|--|---|

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

| Date | Change description |
|------------|--------------------|
| 2021-03-01 | Created |
| 2022-12-01 | Revised |
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