

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 10/15/2014 Revision date: 3/4/2021 Version: 1.5

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

| 1.1. Product identifier                               |   |  |
|---|---|--|
| Product form  | : Substance   |  |
| Substance name  | : FRANKINCENSE (OLIBANUM) OIL   |  |
| EC-No.  | : 232-474-1   |  |
| CAS-No.   | : 8050-07-5   |  |
| Product code  | : ENCHE01   |  |
| Synonyms  | : CAS USA No : 8016-36-2 / Other Europe register No : CAS 89957-98-2 EINECS : 289-620-<br>2 (same INCI) |  |
| Product group   | : Essential oil   |  |
| 1.2. Relevant identified uses of the                  | substance or mixture and uses advised against   |  |
| 1.2.1. Relevant identified uses                       |   |  |
| Main use category                                     | : Industrial use  |  |
| Industrial/Professional use spec                      | : Industrial  |  |
|   | For professional use only   |  |
| 1.2.2. Uses advised against                           |   |  |
| No additional information available                   |   |  |
| 1.3. Details of the supplier of the safety data sheet |   |  |
| EXAFLOR   |   |  |
| 5 rue des Pyrénées                                    |   |  |
| P.O. Box CP 30561                                     |   |  |
| 94653 Rungis Cedex - France                           |   |  |
| T +33 (0)1 41 73 23 10                                |   |  |
| exaflor@orange.fr - www.exaflor.co                    |   |  |

# 1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number  | Comment |
|---------|----------------------|---------|-------------------|---------|
|         | ORFILA (FRANCE)      |         | +33 1 45 42 59 59 |         |

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

| Flammable liquids, Category 3                                     |      |
|---|------|
| Skin corrosion/irritation, Category 2                             | H315 |
| Serious eye damage/eye irritation, Category 2                     | H319 |
| Skin sensitisation, Category 1                                    | H317 |
| Reproductive toxicity, Category 2                                 | H361 |
| Aspiration hazard, Category 1                                     | H304 |
| Hazardous to the aquatic environment — Chronic Hazard, Category 1 | H410 |
| Full text of H statements : see section 16                        |      |

#### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

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# 2.2. Label elements

| Labelling according to Regulation (EC) No. 1272/2 | 008 [CLP]   |  |
|---|---|--|
| Hazard pictograms (CLP)                           |   |  |
| Signal word (CLP)                                 | GHS02 GHS07 GHS08 GHS09<br>: Danger   |  |
| Hazard statements (CLP)                           | <ul> <li>H226 - Flammable liquid and vapour.</li> <li>H304 - May be fatal if swallowed and enters airways.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>  |  |
| Precautionary statements (CLP)                    | <ul> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> <li>P201 - Obtain special instructions before use.</li> <li>P210 - Keep away from heat, sparks, open flames. No smoking.</li> <li>P261 - Avoid breathing fume, gas, dust, vapours.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection.</li> <li>P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. Do NOT induce vomiting.</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention.</li> <li>P337+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P391 - Collect spillage.</li> </ul> |  |

2.3. Other hazards

No additional information available

| SECTION 3: Composition/information on ingredients |  |         |   |
|---|--|---------|---|
| 3.1. Substances                                   |  |         |   |
| Name<br>CAS-No.<br>EC-No.                         | : FRANKINCENSE (OLIBANUM) O<br>: 8050-07-5<br>: 232-474-1                | IL      |   |
| Name  | Product identifier   | %       | Classification according to<br>Regulation (EC) No.<br>1272/2008 [CLP]   |
| ALPHA-PINENES                                     | (CAS-No.) 80-56-8<br>(EC-No.) 201-291-9                                  | 20 – 50 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| BETA-PINENES                                      | (CAS-No.) 127-91-3<br>(EC-No.) 204-872-5                                 | 0 – 15  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304                                |
| D-LIMONENE  | (CAS-No.) 5989-27-5<br>(EC-No.) 227-813-5<br>(EC Index-No.) 601-029-00-7 | 5 – 15  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

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| P-CYMENE           | (CAS-No.) 99-87-6<br>(EC-No.) 202-796-7  | 1 – 10 | Flam. Liq. 3, H226<br>Repr. 2, H361<br>Aquatic Chronic 2, H411                            |
|--------------------|--|--------|---|
| MYRCENE            | (CAS-No.) 123-35-3<br>(EC-No.) 204-622-5 | 1 – 5  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                           |
| 4-TERPINEOL        | (CAS-No.) 562-74-3<br>(EC-No.) 209-235-5 | 1 – 5  | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335 |
| BETA-CARYOPHYLLENE | (CAS-No.) 87-44-5<br>(EC-No.) 201-746-1  | 1 – 5  | Not classified  |
| CAMPHENE           | (CAS-No.) 79-92-5<br>(EC-No.) 201-234-8  | 0 – 1  | Eye Irrit. 2, H319<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                    |
| LINALOOL           | (CAS-No.) 78-70-6<br>(EC-No.) 201-134-4  | ≤ 0.4  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317                           |

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

| SECTION 4: First aid measures  |   |  |
|--|---|--|
| 4.1. Description of first aid measures   |   |  |
| First-aid measures general   | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.   |  |
| First-aid measures after inhalation  | : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.  |  |
| First-aid measures after skin contact  | : Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation occurs: Immediately call a POISON CENTER/doctor, Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Read label before use. on this label). If skin irritation or rash occurs: Immediately call a POISON CENTER/doctor, Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. |  |
| First-aid measures after eye contact   | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical advice/attention. If eye irritation persists: Get medical advice/attention.  |  |
| First-aid measures after ingestion   | : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Do not induce vomiting. Call a physician immediately.   |  |
| 4.2. Most important symptoms and effects, both acute and delayed   |   |  |
| Symptoms/effects after inhalation<br>Symptoms/effects after skin contact<br>Symptoms/effects after eye contact<br>Symptoms/effects after ingestion | <ul> <li>May cause an allergic skin reaction.</li> <li>Causes skin irritation. Irritation. May cause an allergic skin reaction.</li> <li>Causes serious eye irritation. Eye irritation.</li> <li>May be fatal if swallowed and enters airways. Risk of lung oedema.</li> </ul>  |  |
| 4.3. Indication of any immediate medical attention and special treatment needed  |   |  |

Treat symptomatically.

| SECTION 5: Firefighting measures |  |
|----------------------------------|--|
| 5.1. Extinguishing media         |  |
| Suitable extinguishing media     | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |

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| Unsuitable extinguishing media  | : Do not use a heavy water stream.  |
|---|---|
| 5.2. Special hazards arising from the subst   | ance or mixture   |
| Fire hazard<br>Explosion hazard<br>Hazardous decomposition products in case of fire | <ul> <li>Flammable liquid and vapour.</li> <li>May form flammable/explosive vapour-air mixture.</li> <li>Toxic fumes may be released.</li> </ul>  |
| 5.3. Advice for firefighters  |   |
| Firefighting instructions   | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.   |
| Protection during firefighting  | <ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained<br/>breathing apparatus. Complete protective clothing.</li> </ul> |

| SECTION 6: Accidental release measures                                   |  |  |
|--|--|--|
| 6.1. Personal precautions, protective equipment and emergency procedures |  |  |
| General measures   | : Remove ignition sources. Use special care to avoid static electric charges. No open flames<br>No smoking.  |  |
| 6.1.1. For non-emergency personnel                                       |  |  |
| Emergency procedures   | : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.              |  |
| 6.1.2. For emergency responders  |  |  |
| Protective equipment   | : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". |  |
| Emergency procedures   | : Ventilate area.  |  |
| 6.2. Environmental precautions   |  |  |

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

| 6.3. Methods and material for containment and cleaning up |  |  |
|---|--|--|
| For containment   | : Collect spillage.  |  |
| Methods for cleaning up                                   | : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters. |  |
| Other information   | : Dispose of materials or solid residues at an authorized site.  |  |
| 6.4. Reference to other sections                          |  |  |

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

| SECTION 7: Handling and storage                                    |  |
|--|--|
| 7.1. Precautions for safe handling                                 |  |
| Additional hazards when processed<br>Precautions for safe handling | <ul> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>Ensure good ventilation of the work station. Wash hands and other exposed areas with mild<br/>soap and water before eating, drinking or smoking and when leaving work. Provide good<br/>ventilation in process area to prevent formation of vapour. No open flames. No smoking.<br/>Take precautionary measures against static discharge. Use only non-sparking tools. Avoid<br/>breathing smokes, vapours. Keep away from heat, hot surfaces, sparks, open flames and<br/>other ignition sources. No smoking. Ground/bond container and receiving equipment.<br/>Flammable vapours may accumulate in the container. Use explosion-proof equipment.<br/>Wear personal protective equipment. Obtain special instructions before use. Do not handle<br/>until all safety precautions have been read and understood. Avoid contact with skin and<br/>eyes.</li> </ul> |

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| Hygiene measures                     | : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed<br>out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke<br>when using this product. Always wash hands after handling the product. |
|--------------------------------------|---|
| 7.2. Conditions for safe storage, in | cluding any incompatibilities   |
| Technical measures                   | : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating equipment.   |
| Storage conditions                   | : Keep only in the original container in a cool, well ventilated place away from : Heat sources<br>Direct sunlight. Keep container tightly closed. Store in a well-ventilated place. Keep cool.<br>Store locked up.   |
| Incompatible products                | : Strong bases. Strong acids.   |
| Incompatible materials               | : Sources of ignition. Direct sunlight. Heat sources.   |
| Maximum storage period               | : 3 year Shelf life to guarantee the quality and properties of the product; After this period, it is recommended to control organoleptic and physicochemical properties before using the raw material.  |
| Storage temperature                  | : ~ 18 (5 − 25) °C  |

No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### No additional information available

8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses. Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

[In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):



# Environmental exposure controls:

Avoid release to the environment.

Other information: Do not eat, drink or smoke during use.

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### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

| Physical state<br>Colour<br>Odour<br>Odour threshold<br>pH<br>Relative evaporation rate (butylacetate=1)<br>Melting point<br>Freezing point<br>Boiling point<br>Flash point<br>Auto-ignition temperature<br>Decomposition temperature<br>Flammability (solid, gas)<br>Vapour pressure<br>Relative vapour density at 20 °C<br>Relative density<br>Solubility<br>Partition coefficient n-octanol/water (Log Pow)<br>Viscosity, kinematic<br>Viscosity, dynamic<br>Explosive properties<br>Oxidising properties | <ul> <li>Liquid</li> <li>light yellow. Yellow. amber.</li> <li>characteristic. balsamic. woody. Terpene-like.</li> <li>No data available</li> <li>So data available</li> <li>No data available</li> <li>So data available</li> <li>No data available</li> <li>So data available</li> <li>No data available</li> <li>Flammable liquid and vapour.</li> <li>No data available</li> <li>0.84 - 0.9</li> <li>Poorly soluble in water. Solubility in ethanol.</li> <li>No data available</li> </ul> |
|--|--|
| Oxidising properties   | : No data available  |
| Explosive limits   | : No data available  |
| 9.2. Other information   |  |
| VOC content  | : ≤ 75 %   |
| Refractive index   | : 1.455 – 1.485  |

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Flammable liquid and vapour.

### **10.2. Chemical stability**

Not established. Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

#### Not established.

#### **10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

**10.5. Incompatible materials** 

Strong acids. Strong bases.

### **10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

### **SECTION 11: Toxicological information**

## **11.1. Information on toxicological effects**

Acute toxicity (oral)

: Not classified

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| Acute toxicity (dermal)     | : Not classified |
|-----------------------------|------------------|
| Acute toxicity (inhalation) | : Not classified |

| FRANKINCENSE (OLIBANUM) OIL (8050-07-5) |              |
|---|--------------|
| LD50 oral rat                           | ≥ 5000 mg/kg |
| LD50 dermal rabbit                      | ≥ 5000 mg/kg |

| P-CYMENE (99-87-6) |            |
|--------------------|------------|
| LD50 oral rat      | 4750 mg/kg |
| LD50 dermal rabbit | 5000       |

| MYRCENE (123-35-3) |              |
|--------------------|--------------|
| LD50 oral rat      | > 5000 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |

| 4-TERPINEOL (562-74-3) |            |
|------------------------|------------|
| LD50 oral rat          | 1300 mg/kg |
| LD50 dermal rabbit     | 2500 mg/kg |

| ALPHA-PINENES (80-56-8) |              |
|-------------------------|--------------|
| LD50 oral rat           | 3700 mg/kg   |
| LD50 dermal rabbit      | > 5000 mg/kg |

| LINALOOL (78-70-6) |                            |
|--------------------|----------------------------|
| LD50 oral rat      | 2790 mg/kg                 |
| LD50 oral          | 3120 mg/kg LD50 oral mouse |
| LD50 dermal rabbit | 5610 mg/kg                 |

| D-LIMONENE (5989-27-5) |              |
|------------------------|--------------|
| LD50 oral rat          | 4400 mg/kg   |
| LD50 dermal rabbit     | > 5000 mg/kg |

| CAMPHENE (79-92-5)                |  |
|-----------------------------------|--|
| LD50 oral rat                     | > 5000 mg/kg   |
| LD50 dermal rabbit                | > 2500 mg/kg   |
| Skin corrosion/irritation         | : Causes skin irritation.  |
| Serious eye damage/irritation     | : Causes serious eye irritation.                                   |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.                             |
| Germ cell mutagenicity            | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Carcinogenicity                   | : Not classified   |
| Additional information            | : Based on available data. the classification criteria are not met |

| D-LIMONENE (5989-27-5) |                      |
|------------------------|----------------------|
| IARC group             | 3 - Not classifiable |
|                        |                      |

Reproductive toxicity

: Suspected of damaging fertility or the unborn child.

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| Additional information                              | : Based on available data, the classification criteria are not met  |
|---|---|
| STOT-single exposure<br>Additional information      | <ul><li>Not classified</li><li>Based on available data, the classification criteria are not met</li></ul> |
| STOT-repeated exposure<br>Additional information    | <ul><li>Not classified</li><li>Based on available data, the classification criteria are not met</li></ul> |
| Aspiration hazard                                   | : May be fatal if swallowed and enters airways.   |
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met.                                       |

# **SECTION 12: Ecological information**

| 12.1. Toxicity  |   |
|---|---|
| Ecology - general   | : Very toxic to aquatic life with long lasting effects. |
| Ecology - water   | : Very toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified  |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects. |

| FRANKINCENSE (OLIBANUM) OIL (8050-07-5) |                                   |
|---|-----------------------------------|
| EC50 Daphnia 1                          | 35.7 mg/l EC 50 (Daphnia)/ 48 h : |

| P-CYMENE (99-87-6) |   |
|--------------------|---|
| LC50 fish 1        | 48 mg/l 96H -Cyprinodon variegatus (Sheep shead minnow)       |
| EC50 Daphnia 1     | 6.5 mg/l EC50 48h - Daphnia magna [mg/l]                      |
| ErC50 (algae)      | 4.03 mg/l 72h - Scenedesmus capricornutum (Fresh water algae) |

| ALPHA-PINENES (80-56-8)        |   |
|--------------------------------|---|
| LC50 fish 1                    | 0.28 mg/l Pimephales promela (fathead minnow) - 96h |
| LC50 other aquatic organisms 1 | 41 mg/l EC50 48h - Daphnia magna [mg/l]             |

| LINALOOL (78-70-6)             |   |
|--------------------------------|---|
| LC50 fish 1                    | 27.8 mg/l EC 50 (fish : rainbow trout) : - 96h        |
| LC50 other aquatic organisms 1 | 88.3 mg/l Desmodesmus subspicatus (green algae) - 96h |
| EC50 Daphnia 1                 | 59 mg/l EC50 48h - Daphnia magna [mg/l]               |
| NOEC chronic fish              | 3.5 mg/l Oncorhynchus mykiss (Rainbow trout)- 96h     |
| NOEC chronic crustacea         | 25 mg/l daphnia - 48h                                 |

| D-LIMONENE (5989-27-5) |   |
|------------------------|---|
| LC50 fish 1            | 0.702 mg/l Pimephales promela (fathead minnow) -96h |
| EC50 Daphnia 1         | 69.6 daphnia - 48h                                  |

| CAMPHENE (79-92-5) |           |
|--------------------|-----------|
| LC50 fish 1        | 0.72 mg/l |
| EC50 Daphnia 1     | 22 mg/l   |

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| EC50 other aquatic organisms 1  | 1000   |  |  |
|---|--|--|--|
| 12.2. Persistence and degradability   |  |  |  |
| FRANKINCENSE (OLIBANUM) OIL (8050-07-5)   |  |  |  |
| Persistence and degradability   | May cause long-term adverse effects in the environment.                        |  |  |
|   |  |  |  |
| P-CYMENE (99-87-6)  |  |  |  |
| Persistence and degradability   | Readily biodegradable.   |  |  |
| Biodegradation  | 100 %  |  |  |
| MYRCENE (123-35-3)  |  |  |  |
| Persistence and degradability   | Not established.   |  |  |
|   |  |  |  |
| 4-TERPINEOL (562-74-3)  |  |  |  |
| Persistence and degradability   | Not established.   |  |  |
| BETA-PINENES (127-91-3)   |  |  |  |
| Persistence and degradability   | Not established.   |  |  |
|   |  |  |  |
| ALPHA-PINENES (80-56-8)   |  |  |  |
| Persistence and degradability   | Readily biodegradable. May cause long-term adverse effects in the environment. |  |  |
| LINALOOL (78-70-6)  |  |  |  |
| Persistence and degradability   | Readily biodegradable. Not established.  |  |  |
| Biodegradation  | 100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B                                 |  |  |
|   |  |  |  |
| D-LIMONENE (5989-27-5)  |  |  |  |
| Persistence and degradability   | May cause long-term adverse effects in the environment.                        |  |  |
| CAMPHENE (79-92-5)  |  |  |  |
| Biodegradation  | 4 % aerobic - No readily biodegradable   |  |  |
|   |  |  |  |
| BETA-CARYOPHYLLENE (87-44-5)  |  |  |  |
| Persistence and degradability   | Not established.   |  |  |
| 12.3. Bioaccumulative potential   |  |  |  |
| FRANKINCENSE (OLIBANUM) OIL (8050-07-5)   |  |  |  |
| Bioaccumulative potential   | Not established.   |  |  |
| P-CYMENE (99-87-6)  |  |  |  |
| Partition coefficient n-octanol/water (Log Kow)   | 4.1  |  |  |
| a and control and control and a second control and |  |  |  |
| MYRCENE (123-35-3)  |  |  |  |
| Partition coefficient n-octanol/water (Log Kow)   | 4.17   |  |  |
| Bioaccumulative potential   | Not established.   |  |  |

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| 4-TERPINEOL (562-74-3)   |  |  |  |
|--|--|--|--|
| Bioaccumulative potential  | Not established.   |  |  |
|  |  |  |  |
| BETA-PINENES (127-91-3)  |  |  |  |
| Bioaccumulative potential  | Not established.   |  |  |
| ALPHA-PINENES (80-56-8)  |  |  |  |
| Partition coefficient n-octanol/water (Log Pow)  | 4.834  |  |  |
| Bioaccumulative potential  | Not established.   |  |  |
| LINALOOL (78-70-6)   |  |  |  |
| Partition coefficient n-octanol/water (Log Pow)  | 2.97   |  |  |
| Bioaccumulative potential  | Not established.   |  |  |
|  | ·  |  |  |
| D-LIMONENE (5989-27-5)   |  |  |  |
| Bioaccumulative potential  | Not established.   |  |  |
| CAMPHENE (79-92-5)   |  |  |  |
| BCF fish 1   | 922 mg/l - 56 d - Cyprinus carpio (Carp) - not significantly accumulate  |  |  |
|  |  |  |  |
| BETA-CARYOPHYLLENE (87-44-5)   |  |  |  |
| Bioaccumulative potential  | Not established.   |  |  |
| 12.4. Mobility in soil   |  |  |  |
| No additional information available  |  |  |  |
| 12.5. Results of PBT and vPvB assessment   |  |  |  |
| No additional information available  |  |  |  |
| 12.6. Other adverse effects  |  |  |  |
| Additional information :   | Avoid release to the environment.  |  |  |
|  |  |  |  |
| SECTION 13: Disposal considerations  |  |  |  |
| 13.1. Waste treatment methods  |  |  |  |
| Waste treatment methods       :         Product/Packaging disposal recommendations       : | Dispose of contents/container in accordance with licensed collector's sorting instructions.<br>Dispose in a safe manner in accordance with local/national regulations. Dispose of<br>contents/container to contents/container to agreemented companies according to national<br>regulations. |  |  |
| Additional information :   | Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container.   |  |  |
| Ecology - waste materials :  | Avoid release to the environment. Hazardous waste due to toxicity.   |  |  |

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

| 14.1. | UN | number |  |
|-------|----|--------|--|
|       |    |        |  |

UN-No. (ADR)

: UN 1169

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| UN-No. (IMDG) | : UN 1169 |
|---------------|-----------|
| UN-No. (IATA) | : UN 1169 |
| UN-No. (ADN)  | : UN 1169 |
| UN-No. (RID)  | : UN 1169 |

| Proper Shipping Name (ADR)            | : EXTRACTS, AROMATIC, LIQUID  |
|---------------------------------------|---|
| Proper Shipping Name (IMDG)           | Not applicable  |
| Proper Shipping Name (IATA)           | : Not applicable  |
| Proper Shipping Name (ADN)            | : Not applicable  |
| Proper Shipping Name (RID)            | : Not applicable  |
| Transport document description (ADR)  | : UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, (D/E), ENVIRONMENTALLY<br>HAZARDOUS |
| Transport document description (IMDG) | : UN 1169 , 3, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS                         |
| Transport document description (IATA) | : UN 1169 , 3, ENVIRONMENTALLY HAZARDOUS  |
| Transport document description (ADN)  | : UN 1169 , 3, ENVIRONMENTALLY HAZARDOUS  |
| Transport document description (RID)  | : UN 1169 , 3, ENVIRONMENTALLY HAZARDOUS  |

: 3

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#### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) Danger labels (ADR)



Transport hazard class(es) (IMDG)

ΙΑΤΑ Transport hazard class(es) (IATA)

ADN

Transport hazard class(es) (ADN)

RID

| Transport hazard class(es) (RID) |  |
|----------------------------------|--|
| Danger labels (RID)              |  |



# 14.4. Packing group

Packing group (ADR) Packing group (IMDG) Packing group (IATA)

: 111 : Not applicable

: Not applicable

# Safety Data Sheet

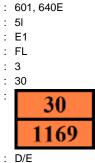
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Packing group (ADN)<br>Packing group (RID)        | <ul><li>Not applicable</li><li>Not applicable</li></ul> |
|---|---|
| 14.5. Environmental hazards                       |   |
| Dangerous for the environment<br>Marine pollutant | : Yes<br>: Yes  |
| Other information                                 | : No supplementary information available                |

# 14.6. Special precautions for user

#### **Overland transport**

| Classification code (ADR)                 |  |  |  |
|---|--|--|--|
| Special provisions (ADR)                  |  |  |  |
| Limited quantities (ADR)                  |  |  |  |
| Excepted quantities (ADR)                 |  |  |  |
| Vehicle for tank carriage                 |  |  |  |
| Transport category (ADR)                  |  |  |  |
| Hazard identification number (Kemler No.) |  |  |  |
| Orange plates                             |  |  |  |
|   |  |  |  |



: F1

Tunnel restriction code (ADR)

#### Transport by sea No data available

Air transport

No data available

# Inland waterway transport

No data available

## Rail transport

No data available

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

#### Not applicable

# **SECTION 15: Regulatory information**

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

### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| Reference code | Applicable on   | Entry title or description   |
|----------------|---|--|
| 3(a)           | FRANKINCENSE (OLIBANUM) OIL ; P-<br>CYMENE ; MYRCENE ; BETA-PINENES ;<br>ALPHA-PINENES ; D-LIMONENE                             | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F                   |
| 3(b)           | FRANKINCENSE (OLIBANUM) OIL ; P-<br>CYMENE ; MYRCENE ; 4-TERPINEOL ;<br>BETA-PINENES ; ALPHA-PINENES ;<br>LINALOOL ; D-LIMONENE | Substances or mixtures fulfilling the criteria for any of the following hazard classes<br>or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes<br>3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development,<br>3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c)           | FRANKINCENSE (OLIBANUM) OIL ; P-<br>CYMENE ; ALPHA-PINENES ; D-<br>LIMONENE   | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1  |

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| 40.   | FRANKINCENSE (OLIBANUM) OIL ; P-<br>CYMENE ; MYRCENE ; BETA-PINENES ;<br>ALPHA-PINENES ; D-LIMONENE ;<br>CAMPHENE | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |
|---|---|--|
| FRANKINCENSE (OLIBANUM) OIL is not on the REACH Candidate List  |   |  |
| FRANKINCENSE (OLIBANUM) OIL is not on the REACH Annex XIV List  |   |  |
| FRANKINCENSE (OLIBANI IM) OIL is not subject to Regulation (FLI) No 649/2012 of the European Parliament and of the Council of 4 july 2012 |   |  |

FRANKINCENSE (OLIBANUM) OIL is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

FRANKINCENSE (OLIBANUM) OIL is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

| VOC content | : ≤ 75 % |
|-------------|----------|
|             |          |

#### 15.1.2. National regulations

#### Germany

| Water hazard class (WGK)                   | : | WGK 3, Highly hazardous to water                                 |
|--|---|--|
| Hazardous Incident Ordinance (12. BImSchV) | : | Is not subject of the Hazardous Incident Ordinance (12. BImSchV) |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

| Abbreviations and acronyms: |   |  |
|-----------------------------|---|--|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways   |  |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road               |  |
| ATE                         | Acute Toxicity Estimate   |  |
| BLV                         | Biological limit value  |  |
| CAS-No.                     | Chemical Abstract Service number  |  |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |  |
| DMEL                        | Derived Minimal Effect level  |  |
| DNEL                        | Derived-No Effect Level   |  |
| EC50                        | Median effective concentration  |  |
| EC-No.                      | European Community number   |  |
| EN                          | European Standard   |  |
| ΙΑΤΑ                        | International Air Transport Association   |  |
| IMDG                        | International Maritime Dangerous Goods  |  |
| LC50                        | Median lethal concentration   |  |
| LD50                        | Median lethal dose  |  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |  |
| NOAEL                       | No-Observed Adverse Effect Level  |  |
| NOEC                        | No-Observed Effect Concentration  |  |
| OEL                         | Occupational Exposure Limit   |  |
| PBT                         | Persistent Bioaccumulative Toxic  |  |
| PNEC                        | Predicted No-Effect Concentration   |  |
| REACH                       | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |  |

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| RID               | Regulations concerning the International Carriage of Dangerous Goods by Rail  |
|-------------------|---|
| SDS               | Safety Data Sheet   |
| vPvB              | Very Persistent and Very Bioaccumulative  |
| WGK               | Water Hazard Class  |
| Data sources      | : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16<br>December 2008 on classification, labelling and packaging of substances and mixtures, amending and<br>repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. |
| Other information | : None.   |

| Full text of H- and EUH-statements: |  |  |  |  |
|-------------------------------------|--|--|--|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4  |  |  |  |
| Aquatic Acute 1                     | Hazardous to the aquatic environment — Acute Hazard, Category 1                            |  |  |  |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment — Chronic Hazard, Category 1                          |  |  |  |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment — Chronic Hazard, Category 2                          |  |  |  |
| Asp. Tox. 1                         | Aspiration hazard, Category 1  |  |  |  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |  |  |  |
| Flam. Liq. 3                        | Flammable liquids, Category 3  |  |  |  |
| Repr. 2                             | Reproductive toxicity, Category 2  |  |  |  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |  |  |  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |  |  |  |
| STOT SE 3                           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |  |  |  |
| H226                                | Flammable liquid and vapour.   |  |  |  |
| H302                                | Harmful if swallowed.  |  |  |  |
| H304                                | May be fatal if swallowed and enters airways.  |  |  |  |
| H315                                | Causes skin irritation.  |  |  |  |
| H317                                | May cause an allergic skin reaction.   |  |  |  |
| H319                                | Causes serious eye irritation.   |  |  |  |
| H335                                | May cause respiratory irritation.  |  |  |  |
| H361                                | Suspected of damaging fertility or the unborn child.                                       |  |  |  |
| H400                                | Very toxic to aquatic life.  |  |  |  |
| H410                                | Very toxic to aquatic life with long lasting effects.                                      |  |  |  |
| H411                                | Toxic to aquatic life with long lasting effects.   |  |  |  |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.