



A R O M O L O G Y

# MUGWORT HT EO MOROCCO

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 2/3/2017 Revision date: 3/25/2025 Supersedes version of: 2/3/2017 Version: 4.0

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

#### 1.1. Product identifier

Product form : Substance (UVCB)  
Trade name : MUGWORT HT EO MOROCCO  
EC No (EC/EINECS/ELINCS) : 283-905-5  
CAS : 84775-75-7  
REACH registration No. : Exempté d'enregistrement (< 1T/an) / Exempted from registration (< 1 T/year)  
Product code : 021334

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

##### Relevant identified uses

Main use category : Industrial use  
Use of the substance/mixture : Fragrance ingredient

#### 1.3. Details of the supplier of the safety data sheet

Aromology Trading LLC  
G05 Al Ghazal Building  
Nadd Al Hamar  
Dubai, United Arab Emirates

Website: [www.aromology.com](http://www.aromology.com)  
Email: [info@aromology.com](mailto:info@aromology.com)

Telephone: +971 505197601

#### 1.4. Emergency telephone number

| Country/Area   | Organisation/Company                                                                | Address                                       | Emergency number                                                                                       | Comment                              |
|----------------|-------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------|
| France         | ORFILA                                                                              |                                               | +33 1 45 42 59 59                                                                                      |                                      |
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                            | PO Box 1297<br>Beaumont Road<br>9 Dublin      | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                      |
| Malta          | Medicines & Poisons Info Office                                                     | Mater Dei Hospital<br>Msida<br>MSD 2090 Msida | 112<br>+356 2545 6508                                                                                  |                                      |
| United Kingdom | National Poisons Information Service<br>(Belfast Centre)<br>Royal Victoria Hospital | Grosvenor Road<br>BT12 6BA Belfast            | 0344 892 0111                                                                                          | Only for healthcare<br>professionals |

### 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 H226  
Acute toxicity (oral), Category 4 H302  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 1 H318  
Skin sensitisation, Category 1 H317  
Specific target organ toxicity – Single exposure, Category 2 H371  
Specific target organ toxicity – Repeated exposure, Category 2 H373  
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

Full text of H- and EUH-statements: see section 16

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### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. May cause damage to organs. Harmful if swallowed. Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS05

GHS07

GHS08

GHS09

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.  
H302 - Harmful if swallowed.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H371 - May cause damage to organs.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground and bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.

## 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : UVCB  
Name : MUGWORT HT EO MOROCCO  
CAS : 84775-75-7  
EC No (EC/EINECS/ELINCS) : 283-905-5

| Name                                      | Product identifier                                   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                                                         |
|-------------------------------------------|------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $\alpha$ -Thujone                         | CAS: 546-80-5<br>EC No (EC/EINECS/ELINCS): 208-912-2 | 50 – 80 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>STOT RE 2, H373                                                                                                                                 |
| 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one | CAS: 76-22-2<br>EC No (EC/EINECS/ELINCS): 200-945-0  | 20 – 25 | Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Oral), H302 (ATE=1310 mg/kg bodyweight)<br>Aquatic Chronic 2, H411<br>Eye Dam. 1, H318<br>Flam. Sol. 2, H228<br>Skin Irrit. 2, H315<br>STOT SE 2, H371 |
| beta-Thujone                              | CAS: 471-15-8                                        | 10 – 20 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)                                                                                                                                                    |

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| Name               | Product identifier                                                                   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                                                   |
|--------------------|--------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camphene           | CAS: 79-92-5<br>EC No (EC/EINECS/ELINCS): 201-234-8                                  | 5 – 10  | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Eye Irrit. 2, H319<br>Flam. Sol. 2, H228                                                                                                      |
| p-Cymene           | CAS: 99-87-6<br>EC No (EC/EINECS/ELINCS): 202-796-7<br>EC index number: 601-094-00-1 | 0.1 – 1 | Repr. 2, H361<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>Acute Tox. 3 (Inhalation), H331 (ATE=0.5 mg/l/4h)                                                          |
| Eucalyptol         | CAS: 470-82-6<br>EC No (EC/EINECS/ELINCS): 207-431-5                                 | 0.1 – 1 | Flam. Liq. 3, H226<br>Skin Sens. 1B, H317<br>Eye Irrit. 2, H319                                                                                                                                   |
| Borneol            | CAS: 507-70-0<br>EC No (EC/EINECS/ELINCS): 208-080-0                                 | 0.1 – 1 | Skin Irrit. 2, H315<br>Flam. Sol. 1, H228<br>Aquatic Chronic 2, H411<br>Eye Dam. 1, H318                                                                                                          |
| Linalool           | CAS: 78-70-6<br>EC No (EC/EINECS/ELINCS): 201-134-4<br>EC index number: 603-235-00-2 | 0.1 – 1 | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317                                                                                                                                  |
| p-Mentha-1,4-diene | CAS: 99-85-4<br>EC No (EC/EINECS/ELINCS): 202-794-6                                  | 0.1 – 1 | Repr. 2, H361<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                                                                                                               |
| p-Mentha-1,3-diene | CAS: 99-86-5<br>EC No (EC/EINECS/ELINCS): 202-795-1<br>EC index number: 601-095-00-7 | 0.1 – 1 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302 (ATE=1680 mg/kg bodyweight)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>Skin Sens. 1, H317<br>Eye Irrit. 2, H319                           |
| alpha-Pinene       | CAS: 80-56-8<br>EC No (EC/EINECS/ELINCS): 201-291-9                                  | 0.1 – 1 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Asp. Tox. 1, H304<br>Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### First-aid measures general

: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing.

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|                                       |                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs: Gently wash with plenty of soap and water. |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.                                                                                                                                                                                                           |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.                                                                                                                                                                                                                               |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                                                                                      |
|-------------------------------------|--------------------------------------------------------------------------------------|
| Symptoms/effects                    | : May cause damage to organs. Causes damage to organs.                               |
| Symptoms/effects after inhalation   | : May cause an allergic skin reaction.                                               |
| Symptoms/effects after skin contact | : Causes skin irritation.                                                            |
| Symptoms/effects after eye contact  | : Causes serious eye damage.                                                         |
| Symptoms/effects after ingestion    | : Swallowing a small quantity of this material will result in serious health hazard. |

### 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   | : Fire extinguishing agents: no data available. Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                                                                   |

### 5.2. Special hazards arising from the substance or mixture

|                                                  |                                                    |
|--------------------------------------------------|----------------------------------------------------|
| Fire hazard                                      | : Flammable liquid and vapour.                     |
| Explosion hazard                                 | : May form flammable/explosive vapour-air mixture. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.                     |

### 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 | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection. |

## 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. No smoking. |
|------------------|-----------------------------------------------------------------------------------------------------------|

#### For non-emergency personnel

|                      |                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Evacuate unnecessary personnel. |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

#### For emergency responders

|                      |                                                                                                                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray. |
| Emergency procedures | : Stop release. 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.

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### 6.3. Methods and material for containment and cleaning up

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

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
- Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray.
- Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up. Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.
- Maximum storage period : 24 months
- Storage area : Store in a well-ventilated place.
- Special rules on packaging : Keep in the dark. Store tightly closed in a dry, cool and well-ventilated place. Product must only be kept in the original packaging.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

| 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2) |          |
|-----------------------------------------------------|----------|
| France - Occupational Exposure Limits               |          |
| Local name                                          | Camphre  |
| VME (OEL TWA)                                       | 12 mg/m³ |
|                                                     | 2 ppm    |

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### 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)

|                                                   |                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------|
| Remark                                            | Valeurs recommandées/admises                                                               |
| Regulatory reference                              | Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)                     |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                                                                                            |
| Local name                                        | Camphor, synthetic                                                                         |
| ACGIH OEL TWA                                     | 2 ppm                                                                                      |
| ACGIH OEL STEL                                    | 3 ppm                                                                                      |
| Remark (ACGIH)                                    | TLV® Basis: Eye & URT irr; anosmia. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference                              | ACGIH 2024                                                                                 |

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Wash hands, forearms and face thoroughly after handling.

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



### Eye and face protection

#### Eye protection:

Safety glasses. Chemical goggles or safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Wear protective gloves.

### Respiratory protection

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

|                 |                     |
|-----------------|---------------------|
| Physical state  | : Liquid            |
| Colour          | : Yellow to orange. |
| Appearance      | : Liquid.           |
| Odour           | : Characteristic.   |
| Odour threshold | : Not available     |
| Melting point   | : Not applicable    |

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|                                                 |                                |
|-------------------------------------------------|--------------------------------|
| Freezing point                                  | : Not available                |
| Boiling point                                   | : Not available                |
| Flammability                                    | : Flammable liquid and vapour. |
| Lower explosion limit                           | : Not available                |
| Upper explosion limit                           | : Not available                |
| Flash point (closed cup)                        | : 50 °C                        |
| Auto-ignition temperature                       | : Not available                |
| Decomposition temperature                       | : Not available                |
| pH                                              | : Not available                |
| Viscosity, kinematic                            | : Not available                |
| Solubility                                      | : Not available                |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                |
| Vapour pressure                                 | : Not available                |
| Vapour pressure at 50°C                         | : Not available                |
| Density                                         | : Not available                |
| Specific gravity (20°C)                         | : 0.9150 – 0.945               |
| Relative vapour density at 20°C                 | : Not available                |
| Particle characteristics                        | : Not applicable               |

### **α-Thujone (546-80-5)**

|                          |       |
|--------------------------|-------|
| Flash point (closed cup) | 64 °C |
|--------------------------|-------|

### **1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)**

|                           |                         |
|---------------------------|-------------------------|
| Boiling point             | 204 °C                  |
| Auto-ignition temperature | 466 °C Source: IPCS     |
| Vapour pressure           | 0.65 mm Hg Temp.: 25 °C |

### **Camphene (79-92-5)**

|                           |                                     |
|---------------------------|-------------------------------------|
| Boiling point             | 156 – 160 °C Atm. press.: 1013 mBar |
| Flash point (closed cup)  | 29.5 °C Atm. press.: 1013 hPa       |
| Auto-ignition temperature | 265 °C Source: ICSC                 |
| Vapour pressure           | 25 mm Hg at 25 °C Source: HSDB      |

### **p-Cymene (99-87-6)**

|                           |                                                                    |
|---------------------------|--------------------------------------------------------------------|
| Boiling point             | 172 °C Source: International Uniform Chemical Information Database |
| Flash point (closed cup)  | 47 °C                                                              |
| Auto-ignition temperature | 435 °C                                                             |
| Vapour pressure           | 1.47 mm Hg Source: National Institute of Technology and Evaluation |

### **Eucalyptol (470-82-6)**

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| Boiling point            | 177 °C Atm. press.: 101,325 kPa Decomposition: 'no' |
| Flash point (closed cup) | 52 °C                                               |
| Vapour pressure          | 122 Pa Temp.: 20 °C                                 |

### **Borneol (507-70-0)**

|                 |                                                                              |
|-----------------|------------------------------------------------------------------------------|
| Boiling point   | 212 °C Source: The Merck Index 13th Ed.                                      |
| Vapour pressure | 0.0353 mm Hg at 25°C Source: National Institute of Technology and Evaluation |

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### Linalool (78-70-6)

|                           |                                                                            |
|---------------------------|----------------------------------------------------------------------------|
| Boiling point             | 196.3 °C Atm. press.: 99,2 kPa Decomposition: 'no' Decomp. temp.: 196,3 °C |
| Flash point (closed cup)  | 77 °C                                                                      |
| Auto-ignition temperature | 235 °C Source: International Chemical Safety Cards                         |
| Vapour pressure           | 27 Pa Temp.: 298 K                                                         |

### p-Mentha-1,4-diene (99-85-4)

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| Boiling point             | 181.8 °C Atm. press.: 100,7 kPa                          |
| Flash point (closed cup)  | 51.8 °C                                                  |
| Auto-ignition temperature | 359 °C Source: ECHA                                      |
| Vapour pressure           | 1.09 mm Hg at 25 °C Source: National Library of Medicine |

### p-Mentha-1,3-diene (99-86-5)

|                          |                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------|
| Boiling point            | 175 °C Source: ChemIDplus                                                                               |
| Flash point (closed cup) | 47 °C                                                                                                   |
| Vapour pressure          | 0.8 mm Hg at 25°C Source: The Chemical Database, The Department of Chemistry at the University of Akron |

### alpha-Pinene (80-56-8)

|                           |                                     |
|---------------------------|-------------------------------------|
| Boiling point             | 155.95 °C Atm. press.: 1013,25 mBar |
| Flash point (closed cup)  | 31 °C                               |
| Auto-ignition temperature | 255 °C                              |
| Vapour pressure           | 4.75 mm Hg                          |

## 9.2. Other information

### Other safety characteristics

Refractive index (20°C) : 1.4530 – 1.4630

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Strong acids. Strong bases.

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### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### **$\alpha$ -Thujone (546-80-5)**

|                |                      |
|----------------|----------------------|
| LD50 oral      | 465 mg/kg            |
| LD50 dermal    | 5000 mg/kg           |
| ATE CLP (oral) | 500 mg/kg bodyweight |

#### **1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)**

|                                 |                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------|
| LD50 oral rat                   | 1310 mg/kg Source: ECHA                                                             |
| LD50 oral                       | 1500 mg/kg                                                                          |
| LD50 dermal rat                 | > 2000 mg/kg Source: ECHA                                                           |
| LC50 Inhalation - Rat           | 0.5 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| LC50 Inhalation - Rat (Vapours) | 1.5 mg/l/4h                                                                         |
| ATE CLP (oral)                  | 1310 mg/kg bodyweight                                                               |
| ATE CLP (gases)                 | 4500 ppmv/4h                                                                        |
| ATE CLP (vapours)               | 1.5 mg/l/4h                                                                         |
| ATE CLP (dust,mist)             | 1.5 mg/l/4h                                                                         |

#### **beta-Thujone (471-15-8)**

|                |                      |
|----------------|----------------------|
| LD50 oral      | 500 mg/kg bodyweight |
| ATE CLP (oral) | 500 mg/kg bodyweight |

#### **Camphene (79-92-5)**

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| LD50 oral rat      | > 2000 mg/kg bodyweight Animal: other:rat and mouse |
| LD50 oral          | > 5000 mg/kg bodyweight Animal: mouse               |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit              |

#### **p-Cymene (99-87-6)**

|                                 |                                                               |
|---------------------------------|---------------------------------------------------------------|
| LD50 oral rat                   | 3669 mg/kg Source: Corporate Solution From Thomson Micromedex |
| LD50 oral                       | 4750 mg/kg bodyweight                                         |
| LD50 dermal rabbit              | > 5000 mg/kg bodyweight Animal: rabbit, Guideline: other:     |
| LC50 Inhalation - Rat (Vapours) | 9.7 mg/l/4h                                                   |
| ATE CLP (gases)                 | 700 ppmv/4h                                                   |
| ATE CLP (vapours)               | 3 mg/l                                                        |
| ATE CLP (dust,mist)             | 0.5 mg/l/4h                                                   |

#### **Eucalyptol (470-82-6)**

|               |                                                        |
|---------------|--------------------------------------------------------|
| LD50 oral rat | 2480 mg/kg Source: NLM; chemIDplus, TOMES;LOLI, RTECS; |
|---------------|--------------------------------------------------------|

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| Eucalyptol (470-82-6)        |                                                                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral                    | 2480 mg/kg bodyweight                                                                                                                          |
| LD50 dermal rat              | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| ATE CLP (oral)               | 2480 mg/kg bodyweight                                                                                                                          |
| Borneol (507-70-0)           |                                                                                                                                                |
| LD50 oral rat                | 500 mg/kg Source: National Library of Medicine/Hazardous Substances Data Bank                                                                  |
| ATE CLP (oral)               | 500 mg/kg bodyweight                                                                                                                           |
| Linalool (78-70-6)           |                                                                                                                                                |
| LD50 oral rat                | 2790 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2440 - 3180                                    |
| LD50 oral                    | 2790 mg/kg                                                                                                                                     |
| LD50 dermal rabbit           | 5610 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374                               |
| ATE CLP (oral)               | 2790 mg/kg bodyweight                                                                                                                          |
| ATE CLP (dermal)             | 5610 mg/kg bodyweight                                                                                                                          |
| p-Mentha-1,4-diene (99-85-4) |                                                                                                                                                |
| LD50 oral rat                | 3650 mg/kg Source: National Library of Medicine                                                                                                |
| LD50 oral                    | 3650 mg/kg bodyweight                                                                                                                          |
| LD50 dermal rat              | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)                                                     |
| p-Mentha-1,3-diene (99-86-5) |                                                                                                                                                |
| LD50 oral rat                | 1680 mg/kg Source: Corporate Solution From Thomson Micromedex                                                                                  |
| LD50 oral                    | 1680 mg/kg bodyweight                                                                                                                          |
| LD50 dermal rat              | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)                                 |
| ATE CLP (oral)               | 1680 mg/kg bodyweight                                                                                                                          |
| alpha-Pinene (80-56-8)       |                                                                                                                                                |
| LD50 oral rat                | 2100 mg/kg Source: International Uniform Chemical Information Database                                                                         |
| LD50 dermal rat              | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| ATE CLP (oral)               | 500 mg/kg bodyweight                                                                                                                           |

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| Skin corrosion/irritation         | : Causes skin irritation.                                          |
| Serious eye damage/irritation     | : Causes serious eye damage.                                       |
| 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 |
| Reproductive toxicity             | : Not classified                                                   |
| Additional information            | : Based on available data, the classification criteria are not met |

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| p-Mentha-1,4-diene (99-85-4) |                                                                                                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (animal/male, F0/P)    | 250 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)   |
| NOAEL (animal/female, F0/P)  | 100 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| NOAEL (animal/male, F1)      | 250 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)   |
| NOAEL (animal/female, F1)    | 100 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

STOT-single exposure : May cause damage to organs.

| 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2) |                             |
|-----------------------------------------------------|-----------------------------|
| STOT-single exposure                                | May cause damage to organs. |

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

| $\alpha$ -Thujone (546-80-5) |                                                                    |
|------------------------------|--------------------------------------------------------------------|
| STOT-repeated exposure       | May cause damage to organs through prolonged or repeated exposure. |

| 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2) |                                                                                                                                                                     |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days)                          | 3.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)                                               |
| NOAEL (dermal, rat/rabbit, 90 days)                 | 250 mg/kg bodyweight Animal: rat, Guideline: other:Food and Drug Administration (FDA) Good Laboratory Practice Regulations for Nonclinical Studies (GLP Guidelines) |

| Eucalyptol (470-82-6)      |                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days) | 600 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:japanese Ministry of Economy Trade and Industry Guideline for 28 day repeat oral dose toxicity study., Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents), Guideline: EPA OPPTS 870.3150 (90-Day Oral Toxicity in Nonrodents) |

| Linalool (78-70-6)                  |                                                                                                            |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|
| NOAEL (dermal, rat/rabbit, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

| Linalool (78-70-6)   |                          |
|----------------------|--------------------------|
| Viscosity, kinematic | 5.192 mm <sup>2</sup> /s |

## 11.2. Information on other hazards

### Other information

Potential adverse human health effects and symptoms : Harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Ecology - water : Toxic to aquatic life with long lasting effects.

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Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

| 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2) |                                                                                                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]                                     | 35 – 50 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)                                                     |
| LC50 - Fish [2]                                     | 110 mg/l Test organisms (species): Pimephales promelas                                                                                    |
| EC50 - Crustacea [1]                                | 4.23 mg/l Test organisms (species): Daphnia magna                                                                                         |
| EC50 72h - Algae [1]                                | 0.3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)  |
| EC50 72h - Algae [2]                                | 1.71 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1]                                | 6.951 mg/l Test organisms (species):                                                                                                      |
| Camphene (79-92-5)                                  |                                                                                                                                           |
| LC50 - Fish [1]                                     | 0.72 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)                                                        |
| EC50 - Crustacea [1]                                | 0.72 mg/l Test organisms (species): Daphnia magna                                                                                         |
| EC50 72h - Algae [1]                                | 1.75 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1]                                | 214 mg/l Source: ECOTOX                                                                                                                   |
| p-Cymene (99-87-6)                                  |                                                                                                                                           |
| LC50 - Fish [1]                                     | 48 mg/l Source: ECOTOX                                                                                                                    |
| EC50 - Crustacea [1]                                | 3.7 mg/l Test organisms (species): Daphnia magna                                                                                          |
| EC50 72h - Algae [1]                                | 4.03 mg/l Test organisms (species): Scenedesmus capricornutum                                                                             |
| EC50 72h - Algae [2]                                | 2.01 mg/l Test organisms (species): Scenedesmus capricornutum                                                                             |
| EC50 96h - Algae [1]                                | 22 mg/l Source: The ECOTOXicology database                                                                                                |
| Eucalyptol (470-82-6)                               |                                                                                                                                           |
| LC50 - Fish [1]                                     | 57 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)                                                    |
| EC50 - Crustacea [1]                                | > 100 mg/l Test organisms (species): Daphnia magna                                                                                        |
| EC50 72h - Algae [1]                                | > 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1]                                | > 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| Borneol (507-70-0)                                  |                                                                                                                                           |
| LC50 - Fish [1]                                     | 25.683 mg/l Source: Ecological Structure Activity Relationships                                                                           |
| EC50 96h - Algae [1]                                | 18.775 mg/l Source: Ecological Structure Activity Relationships                                                                           |
| Linalool (78-70-6)                                  |                                                                                                                                           |
| LC50 - Fish [1]                                     | 27.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)                                                  |
| EC50 - Crustacea [1]                                | 59 mg/l Test organisms (species): Daphnia magna                                                                                           |
| EC50 96h - Algae [1]                                | 88.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                      |
| EC50 96h - Algae [2]                                | 156.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                     |

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|                                                            |                                                                       |
|------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>p-Mentha-1,4-diene (99-85-4)</b>                        |                                                                       |
| LC50 - Fish [1]                                            | 0.263 mg/l Source: Ecological Structure Activity Relationships        |
| EC50 - Crustacea [1]                                       | 10189 mg/l Test organisms (species): Daphnia magna                    |
| EC50 72h - Algae [1]                                       | > 10.82 mg/l Test organisms (species): Scenedesmus capricornutum      |
| EC50 96h - Algae [1]                                       | 0.249 mg/l Source: Ecological Structure Activity Relationships        |
| <b>p-Mentha-1,3-diene (99-86-5)</b>                        |                                                                       |
| LC50 - Fish [1]                                            | 0.263 mg/l Source: Ecological Structure Activity Relationships        |
| EC50 - Crustacea [1]                                       | 1.7 mg/l Test organisms (species): Daphnia magna                      |
| EC50 96h - Algae [1]                                       | 0.249 mg/l Source: Ecological Structure Activity Relationships        |
| <b>alpha-Pinene (80-56-8)</b>                              |                                                                       |
| LC50 - Fish [1]                                            | 0.28 mg/l Source: International Uniform Chemical Information Database |
| EC50 - Crustacea [1]                                       | 0.475 mg/l Test organisms (species): Daphnia magna                    |
| <b>12.2. Persistence and degradability</b>                 |                                                                       |
| <b>MUGWORT HT EO MOROCCO (84775-75-7)</b>                  |                                                                       |
| Persistence and degradability                              | May cause long-term adverse effects in the environment.               |
| <b>α-Thujone (546-80-5)</b>                                |                                                                       |
| Persistence and degradability                              | Rapidly degradable                                                    |
| <b>1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)</b> |                                                                       |
| Persistence and degradability                              | Rapidly degradable                                                    |
| <b>beta-Thujone (471-15-8)</b>                             |                                                                       |
| Persistence and degradability                              | Rapidly degradable                                                    |
| <b>Camphene (79-92-5)</b>                                  |                                                                       |
| Persistence and degradability                              | Rapidly degradable                                                    |
| <b>p-Cymene (99-87-6)</b>                                  |                                                                       |
| Persistence and degradability                              | Rapidly degradable                                                    |
| <b>Eucalyptol (470-82-6)</b>                               |                                                                       |
| Persistence and degradability                              | Rapidly degradable                                                    |
| <b>Borneol (507-70-0)</b>                                  |                                                                       |
| Persistence and degradability                              | Rapidly degradable                                                    |
| <b>Linalool (78-70-6)</b>                                  |                                                                       |
| Persistence and degradability                              | Rapidly degradable                                                    |
| <b>p-Mentha-1,4-diene (99-85-4)</b>                        |                                                                       |
| Persistence and degradability                              | Rapidly degradable                                                    |
| <b>p-Mentha-1,3-diene (99-86-5)</b>                        |                                                                       |
| Persistence and degradability                              | Rapidly degradable                                                    |
| <b>alpha-Pinene (80-56-8)</b>                              |                                                                       |
| Persistence and degradability                              | Rapidly degradable                                                    |

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### 12.3. Bioaccumulative potential

#### MUGWORT HT EO MOROCCO (84775-75-7)

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

#### 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)

|                                                 |                   |
|-------------------------------------------------|-------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.38 Source: HSDB |
|-------------------------------------------------|-------------------|

#### Camphene (79-92-5)

|                                                 |                  |
|-------------------------------------------------|------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.1 Source: ICSC |
|-------------------------------------------------|------------------|

#### p-Cymene (99-87-6)

|                                                 |                                                 |
|-------------------------------------------------|-------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.1 Source: International Chemical Safety Cards |
|-------------------------------------------------|-------------------------------------------------|

#### Eucalyptol (470-82-6)

|                                                 |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Pow) | 2.74 |
|-------------------------------------------------|------|

#### Borneol (507-70-0)

|                                                 |                                                              |
|-------------------------------------------------|--------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.69 Source: National Institute of Technology and Evaluation |
|-------------------------------------------------|--------------------------------------------------------------|

#### Linalool (78-70-6)

|                                                 |                                                  |
|-------------------------------------------------|--------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.97 Source: International Chemical Safety Cards |
|-------------------------------------------------|--------------------------------------------------|

#### p-Mentha-1,4-diene (99-85-4)

|                                                 |                 |
|-------------------------------------------------|-----------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.5 Source: NLM |
|-------------------------------------------------|-----------------|

#### p-Mentha-1,3-diene (99-86-5)

|                                                 |                         |
|-------------------------------------------------|-------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.25 Source: ChemIDplus |
|-------------------------------------------------|-------------------------|

#### alpha-Pinene (80-56-8)

|                                                 |                                                                   |
|-------------------------------------------------|-------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.834 Source: International Uniform Chemical Information Database |
|-------------------------------------------------|-------------------------------------------------------------------|

### 12.4. Mobility in soil

#### Eucalyptol (470-82-6)

|                  |                        |
|------------------|------------------------|
| Mobility in soil | 223.9 Source: EPISUITE |
|------------------|------------------------|

#### Linalool (78-70-6)

|                  |                 |
|------------------|-----------------|
| Mobility in soil | 76 Source: HSDB |
|------------------|-----------------|

#### alpha-Pinene (80-56-8)

|                  |                   |
|------------------|-------------------|
| Mobility in soil | 2600 Source: HSDB |
|------------------|-------------------|

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

#### MUGWORT HT EO MOROCCO (84775-75-7)

|                   |                                   |
|-------------------|-----------------------------------|
| Other information | Avoid release to the environment. |
|-------------------|-----------------------------------|

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                                                                                       |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                                                                                                                                                            |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                                                                                         |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| Additional information                     | : Flammable vapours may accumulate in the container. Handle empty containers with care because residual vapours are flammable.                                                                                                        |
| Ecological waste information               | : Avoid release to the environment.                                                                                                                                                                                                   |

### SECTION 14: Transport information

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

| ADR                                                                | IMDG                                                                                                          | IATA                                                        | ADN                                                         | RID                                                         |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| <b>14.1. UN number or ID number</b>                                |                                                                                                               |                                                             |                                                             |                                                             |
| UN 1197                                                            | UN 1197                                                                                                       | UN 1197                                                     | UN 1197                                                     | UN 1197                                                     |
| <b>14.2. UN proper shipping name</b>                               |                                                                                                               |                                                             |                                                             |                                                             |
| EXTRACTS, LIQUID                                                   | EXTRACTS, LIQUID                                                                                              | Extracts, liquid                                            | EXTRACTS, LIQUID                                            | EXTRACTS, LIQUID                                            |
| <b>Transport document description</b>                              |                                                                                                               |                                                             |                                                             |                                                             |
| UN 1197 EXTRACTS, LIQUID, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS | UN 1197 EXTRACTS, LIQUID, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS                                  | UN 1197 Extracts, liquid, 3, III, ENVIRONMENTALLY HAZARDOUS | UN 1197 EXTRACTS, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS | UN 1197 EXTRACTS, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS |
| <b>14.3. Transport hazard class(es)</b>                            |                                                                                                               |                                                             |                                                             |                                                             |
| 3                                                                  | 3                                                                                                             | 3                                                           | 3                                                           | 3                                                           |
|                                                                    |                                                                                                               |                                                             |                                                             |                                                             |
| <b>14.4. Packing group</b>                                         |                                                                                                               |                                                             |                                                             |                                                             |
| III                                                                | III                                                                                                           | III                                                         | III                                                         | III                                                         |
| <b>14.5. Environmental hazards</b>                                 |                                                                                                               |                                                             |                                                             |                                                             |
| Dangerous for the environment: Yes                                 | Dangerous for the environment: Yes<br>Marine pollutant: Yes<br>EmS-No. (Fire): F-E<br>EmS-No. (Spillage): S-D | Dangerous for the environment: Yes                          | Dangerous for the environment: Yes                          | Dangerous for the environment: Yes                          |
| No supplementary information available                             |                                                                                                               |                                                             |                                                             |                                                             |

#### 14.6. Special precautions for user

##### Overland transport

|                                                     |                           |
|-----------------------------------------------------|---------------------------|
| Classification code (ADR)                           | : F1                      |
| Special provisions (ADR)                            | : 601                     |
| Limited quantities (ADR)                            | : 5I                      |
| Excepted quantities (ADR)                           | : E1                      |
| Packing instructions (ADR)                          | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR)                      | : MP19                    |
| Portable tank and bulk container instructions (ADR) | : T2                      |

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Portable tank and bulk container special provisions (ADR) : TP1

Tank code (ADR) : LGBF

Vehicle for tank carriage : FL

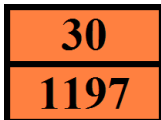
Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V12

Special provisions for carriage - Operation (ADR) : S2

Hazard identification number (Kemler No.) : 30

Orange plates :



Tunnel restriction code (ADR) : D/E

EAC code : 3Y

### Transport by sea

Special provisions (IMDG) : 223, 955

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T2

Tank special provisions (IMDG) : TP1

Stowage category (IMDG) : A

Properties and observations (IMDG) : Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.

MFAG-No : 127;128

### Air transport

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y344

PCA limited quantity max net quantity (IATA) : 10L

PCA packing instructions (IATA) : 355

PCA max net quantity (IATA) : 60L

CAO packing instructions (IATA) : 366

CAO max net quantity (IATA) : 220L

Special provisions (IATA) : A3

ERG code (IATA) : 3L

### Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : F1

Special provisions (RID) : 601

Limited quantities (RID) : 5L

Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T2

Portable tank and bulk container special provisions (RID) : TP1

Tank codes for RID tanks (RID) : LGBF

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Colis express (express parcels) (RID) : CE4

Hazard identification number (RID) : 30

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### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### National regulations

##### Germany

VOC ordinance (ChemVOCFarbV) :

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV).

Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : MUGWORT HT EO MOROCCO is listed

SZW-lijst van mutagene stoffen : MUGWORT HT EO MOROCCO is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – : The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

##### Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H226;H302;H315;H317;H318;H371;H373;H411>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

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### Poland

#### Polish National Regulations

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).  
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).  
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).  
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).  
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).  
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).  
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488).  
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).  
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).  
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Indication of changes |                                                                 |          |
|-----------------------|-----------------------------------------------------------------|----------|
| Section               | Changed item                                                    | Comments |
|                       | Revision date                                                   | Modified |
|                       | Supersedes                                                      | Modified |
|                       | Proper Shipping Name (RID)                                      | Modified |
|                       | Special provisions (RID)                                        | Modified |
|                       | Proper Shipping Name (IATA)                                     | Modified |
|                       | Flash point (IMDG)                                              | Removed  |
|                       | Proper Shipping Name (IMDG)                                     | Modified |
|                       | UN-No. (RID)                                                    | Modified |
| 1.2                   | Use of the substance/mixture                                    | Added    |
| 1.2                   | Industrial/Professional use spec                                | Removed  |
| 1.2                   | Main use category                                               | Modified |
| 2.1                   | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified |
| 2.2                   | Precautionary statements (CLP)                                  | Modified |
| 2.2                   | Hazard statements (CLP)                                         | Modified |
| 2.2                   | EUH-statements                                                  | Removed  |

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## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Indication of changes |                                        |          |
|-----------------------|----------------------------------------|----------|
| Section               | Changed item                           | Comments |
| 2.2                   | Signal word (CLP)                      | Modified |
| 2.2                   | Hazard pictograms (CLP)                | Modified |
| 3                     | Composition/information on ingredients | Modified |
| 4.1                   | First-aid measures after ingestion     | Modified |
| 4.1                   | First-aid measures after eye contact   | Modified |
| 4.1                   | First-aid measures after skin contact  | Modified |
| 4.1                   | First-aid measures general             | Modified |
| 4.2                   | Symptoms/effects after skin contact    | Added    |
| 4.2                   | Symptoms/effects after eye contact     | Added    |
| 4.2                   | Symptoms/effects                       | Modified |
| 4.2                   | Symptoms/effects after ingestion       | Modified |
| 5.1                   | Suitable extinguishing media           | Modified |
| 5.3                   | Protection during firefighting         | Modified |
| 5.3                   | Firefighting instructions              | Modified |
| 5.3                   | EAC code                               | Modified |
| 6.1                   | Emergency procedures                   | Modified |
| 6.1                   | Protective equipment                   | Modified |
| 6.3                   | Methods for cleaning up                | Modified |
| 6.4                   | Reference to other sections (8, 13)    | Modified |
| 7.1                   | Precautions for safe handling          | Modified |
| 7.1                   | Hygiene measures                       | Modified |
| 7.2                   | Storage conditions                     | Modified |
| 7.2                   | Technical measures                     | Modified |
| 7.2                   | Special rules on packaging             | Modified |
| 8.2                   | Respiratory protection                 | Modified |
| 8.2                   | Eye protection                         | Modified |
| 9                     | Specific gravity (20°C)                | Modified |
| 10.4                  | Conditions to avoid                    | Modified |
| 11.1                  | Additional information                 | Added    |
| 11.1                  | Additional information                 | Removed  |
| 11.1                  | Additional information                 | Removed  |
| 11.1                  | Additional information                 | Removed  |
| 11.1                  | ATE CLP (oral)                         | Modified |
| 12.1                  | Ecology - water                        | Modified |
| 13.1                  | Additional information                 | Modified |
| 13.1                  | Ecology - waste materials              | Modified |
| 14.1                  | UN-No. (ADN)                           | Modified |
| 14.1                  | UN-No. (IATA)                          | Modified |

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| Indication of changes |                            |          |
|-----------------------|----------------------------|----------|
| Section               | Changed item               | Comments |
| 14.1                  | UN-No. (IMDG)              | Modified |
| 14.1                  | UN-No. (ADR)               | Modified |
| 14.2                  | Proper Shipping Name (ADN) | Modified |
| 14.2                  | Proper Shipping Name (ADR) | Modified |
| 14.6                  | Special provisions (ADN)   | Modified |
| 14.6                  | Special provisions (ADR)   | Modified |

Data sources : 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, amending and 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. 3 (Inhalation)           | Acute toxicity (inhal.), Category 3                               |
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4                               |
| 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 Dam. 1                          | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                     |
| Flam. Liq. 3                        | Flammable liquids, Category 3                                     |
| Flam. Sol. 1                        | Flammable solids, Category 1                                      |
| Flam. Sol. 2                        | Flammable solids, Category 2                                      |
| Repr. 2                             | Reproductive toxicity, Category 2                                 |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                             |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                    |
| Skin Sens. 1B                       | Skin sensitisation, category 1B                                   |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2    |
| STOT SE 2                           | Specific target organ toxicity – Single exposure, Category 2      |
| H226                                | Flammable liquid and vapour.                                      |
| H228                                | Flammable solid.                                                  |
| H302                                | Harmful if swallowed.                                             |
| H304                                | May be fatal if swallowed and enters airways.                     |
| H315                                | Causes skin irritation.                                           |
| H317                                | May cause an allergic skin reaction.                              |
| H318                                | Causes serious eye damage.                                        |
| H319                                | Causes serious eye irritation.                                    |

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| Full text of H- and EUH-statements: |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| H331                                | Toxic if inhaled.                                                  |
| H332                                | Harmful if inhaled.                                                |
| H361                                | Suspected of damaging fertility or the unborn child.               |
| H371                                | May cause damage to organs.                                        |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| 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.                   |

Safety Data Sheet (SDS), EU

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.