

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 7/24/2014 Revision date: 6/23/2020 Supersedes: 5/2/2016 Version: 1.6

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

1.1. Product identifier

Product form : Substance

Substance name : WINTER SAVORY OIL

 EC-No.
 : 290-280-2

 CAS-No.
 : 90106-57-3

 Product code
 : SARHE02

 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

Acute toxicity (oral), Category 4

Skin corrosion/irritation, Category 1B

Skin sensitisation, Category 1

Reproductive toxicity, Category 2

Aspiration hazard, Category 1

Hazardous to the aquatic environment — Chronic Hazard, Category 2

H411

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. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

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2.2. Label elements

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

Hazard pictograms (CLP)











GHS02

: Danger

GHS05

GHS07

GHS08

GHS09

Signal word (CLP)

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction.

H361 - Suspected of damaging fertility or the unborn child.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P210 - Keep away from heat, sparks, open flames, hot surfaces. No smoking.

P261 - Avoid breathing spray, fume, dust, vapours. P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves, protective clothing, eye protection.

P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. Do

NOT induce vomiting.

P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER, a doctor.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a POISON CENTER, a doctor. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER, a doctor.

P308+P313 - IF exposed or concerned: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : WINTER SAVORY OIL

CAS-No. : 90106-57-3 EC-No. : 290-280-2

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|--|---------|---|
| CARVACROL | (CAS-No.) 499-75-2 (EC-No.) 207-889-6 | 20 – 55 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 |
| P-CYMENE | (CAS-No.) 99-87-6 (EC-No.) 202-796-7 | 10 – 20 | Flam. Liq. 3, H226 Aquatic Chronic 2, H411 |
| THYMOL | (CAS-No.) 89-83-8 (EC-No.) 201-944-8 (EC Index-No.) 604-032-00-1 | 5 – 15 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Chronic 2, H411 |
| GAMMA-TERPINENE | (CAS-No.) 99-85-4 (EC-No.) 202-794-6 | 4 – 9 | Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304 |

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| LINALOOL | (CAS-No.) 78-70-6 (EC-No.) 201-134-4 | 0 – 4 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
|------------|--|-----------|--|
| EUCALYPTOL | (CAS-No.) 470-82-6 (EC-No.) 207-431-5 | ≤ 2 | Flam. Liq. 3, H226 |
| CARVONE | (CAS-No.) 99-49-0 (EC-No.) 218-827-2 | ≤ 1.5 | Skin Sens. 1, H317 |
| CAMPHOR | (CAS-No.) 76-22-2 (EC-No.) 200-945-0 | 0.4 – 1.5 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412 |
| D-LIMONENE | (CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 | 0.5 – 1.5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| GERANIOL | (CAS-No.) 106-24-1 (EC-No.) 203-377-1 | ≤ 0.8 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

| 4.1. L | Description | n 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.

advice (show the large white possible). Oan a physician immediately.

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. Call a POISON CENTER/doctor if you feel unwell.

Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Wash with plenty of water/.... If skin irritation or rash

occurs: Wash with plenty of water/.... Get medical advice/attention. Specific treatment (see Read label before use. on this label). Wash contaminated clothing before reuse. Call a

physician immediately.

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. Call a physician

immediately.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.

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 : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

inhaled. May cause an allergic skin reaction.

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard. Burns. Risk

of lung oedema.

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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.

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 enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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.

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. Do not breathe

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 : Handle empty containers with care because residual vapours are flammable.

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Precautions for safe handling

: 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. Use only outdoors or in a well-ventilated area. Do not breathe smokes, vapours. 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Always wash hands after handling the product.

7.2. Conditions for safe storage, including 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. Comply with

applicable regulations

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct

sunlight, Heat sources. Keep container tightly closed. Store in a well-ventilated place. Keep

cool. Store locked up.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Maximum storage period : 24 months 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 : 5-25 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| CAMPHOR (76-22-2) | |
|---------------------------------------|----------|
| France - Occupational Exposure Limits | |
| Local name | Camphre |
| VME (mg/m³) | 12 mg/m³ |
| VME (ppm) | 2 ppm |

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 face shield. Safety glasses

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask. [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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid mobile.

Colour : slightly. Yellow. light brown. orange.

Odour
Odour
Odour threshold

pH
: No data available
pRelative evaporation rate (butylacetate=1)
: No data available
Melting point
: No data available
Freezing point
: No data available
Boiling point
: No data available
Boiling point
: No data available

Flash point : 52 °C

Auto-ignition temperature : No data available Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapour.

Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : 0.89 – 0.955

Solubility : Poorly soluble in water. Solubility in ethanol.

Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available

9.2. Other information

VOC content : ca. 15 (10.5 – 21.5) %

Refractive index : 1.486 – 1.51

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates: Corrosive vapours. Flammable liquid and vapour.

10.2. Chemical stability

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

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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. Thermal decomposition generates: Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

WINTER SAVORY OIL (90106-57-3)

LD50 oral rat 1370 mg/kg

CARVACROL (499-75-2)

| LD50 oral rat | 810 mg/kg |
|--------------------|------------|
| LD50 dermal rabbit | 2700 mg/kg |

P-CYMENE (99-87-6)

| LD50 oral rat | 4750 mg/kg |
|--------------------|------------|
| LD50 dermal rabbit | 5000 |

THYMOL (89-83-8)

LD50 oral rat 980 mg/kg

GAMMA-TERPINENE (99-85-4)

LD50 oral rat 3850

LINALOOL (78-70-6)

| LD50 oral rat | 2790 mg/kg |
|--------------------|----------------------------|
| LD50 oral | 3120 mg/kg LD50 oral mouse |
| LD50 dermal rabbit | 5610 mg/kg |

EUCALYPTOL (470-82-6)

LD50 oral rat 2480 ml/kg

D-LIMONENE (5989-27-5)

| LD50 oral rat | 4400 mg/kg |
|--------------------|--------------|
| LD50 dermal rabbit | > 5000 mg/kg |

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| CAMPHOR (76-22-2) | |
|-------------------|----------------|
| LD50 dermal | 3040 mg/kg rat |

| CARVONE (99-49-0) | |
|--------------------|----------------------|
| LD50 oral rat | 5400 mg/kg |
| LD50 oral | 766 mg/kg Guinea pig |
| LD50 dermal rabbit | 3800 mg/kg |

| GERANIOL (106-24-1) | |
|---------------------|--------------|
| LD50 oral rat | 3600 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |

Skin corrosion/irritation : Causes severe skin burns.

Serious eye damage/irritation : Assumed to cause 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

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

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

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

STOT-single exposure : Not classified

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

STOT-repeated exposure : Not classified

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

Aspiration hazard : May be fatal if swallowed and enters airways.

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

Potential adverse human health effects and

symptoms

: Harmful if swallowed. Harmful if inhaled.

SECTION 12: Ecological information

12.1. Toxicity

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

Hazardous to the aquatic environment, short-term

(acute)

Toxic to aquatic life with long lasting effects. : Not classified

Hazardous to the aquatic environment, long-term

: Toxic to aquatic life with long lasting effects.

(chronic)

| 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) | |

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| THYMOL (89-83-8) | | | |
|-------------------------------------|--|--|--|
| LC50 fish 1 | Average 3.7 (3.2 – 4.2) mg/l Pimephales promela (fathead minnow) - 96h | | |
| EC50 Daphnia 1 | Averrage 2.5 (1.7 – 3.2) mg/l EC50 (Daphnia Magna) - 96h | | |
| 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 | | |
| | | | |
| EUCALYPTOL (470-82-6) | | | |
| LC50 fish 1 | 102 mg/l Pimephales promela (fathead minnow) - 96H | | |
| D-LIMONENE (5989-27-5) | | | |
| LC50 fish 1 | 0.702 mg/l Pimephales promela (fathead minnow) -96h | | |
| EC50 Daphnia 1 | 69.6 daphnia - 48h | | |
| | | | |
| CAMPHOR (76-22-2) | | | |
| LC50 fish 1 | 50 mg/l LC50 96h fish | | |
| GERANIOL (106-24-1) | | | |
| LC50 fish 1 | env. 22 mg/l Brachydanio rerio (zebra-fish) - 96h | | |
| EC50 Daphnia 1 | 10.8 mg/l EC50 48h - Daphnia magna [mg/l] | | |
| EC50 other aquatic organisms 1 | 13.1 mg/l Desmodesmus subspicatus (green algae) -72h | | |
| 12.2. Persistence and degradability | | | |
| WINTER SAVORY OIL (90106-57-3) | | | |
| Persistence and degradability | May cause long-term adverse effects in the environment. | | |
| CARVACROL (499-75-2) | | | |
| Persistence and degradability | Not established. | | |
| D OVALENE (OD OZ C) | | | |
| P-CYMENE (99-87-6) | | | |
| Persistence and degradability | Readily biodegradable. | | |
| Biodegradation | 100 % | | |
| THYMOL (89-83-8) | | | |
| Persistence and degradability | May cause long-term adverse effects in the environment. | | |
| GAMMA-TERPINENE (99-85-4) | | | |
| Persistence and degradability | Not established. | | |
| | | | |

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| according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 | | |
|--|---|--|
| 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. | |
| CAMPHOR (76-22-2) | | |
| Persistence and degradability | May cause long-term adverse effects in the environment. | |
| BOD (% of ThOD) | 94 % ThOD | |
| | | |
| CARVONE (99-49-0) | | |
| Persistence and degradability | Not established. | |
| GERANIOL (106-24-1) | | |
| Persistence and degradability | Readily biodegradable. Not established. | |
| Biodegradation | 80 – 100 % aérobic, Exposure duration 3 days | |
| 42.2 Diagonymulative potential | | |
| 12.3. Bioaccumulative potential | | |
| WINTER SAVORY OIL (90106-57-3) | T., | |
| Bioaccumulative potential | Not established. | |
| CARVACROL (499-75-2) | | |
| Partition coefficient n-octanol/water (Log Kow) | 3.49 | |
| Bioaccumulative potential | Not established. | |
| D CVMENT (00 07 C) | | |
| P-CYMENE (99-87-6) | | |
| Partition coefficient n-octanol/water (Log Kow) | 4.1 | |
| THYMOL (89-83-8) | | |
| Partition coefficient n-octanol/water (Log Kow) | 3.3 | |
| Bioaccumulative potential | Not established. | |
| | | |
| GAMMA-TERPINENE (99-85-4) | | |
| 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. | |
| CAMPHOR (76-22-2) | | |
| Bioconcentration factor (BCF REACH) | 38 | |
| <u> </u> | | |

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| Partition coefficient n-octanol/water (Log Pow) | 2.38 |
|---|------------------|
| Partition coefficient n-octanol/water (Log Kow) | 2.95 |
| Bioaccumulative potential | Not established. |

| CARVONE (99-49-0) | |
|--|--|
| Partition coefficient n-octanol/water (Log Kow) 3.07 | |
| Bioaccumulative potential Not established. | |

| GERANIOL (106-24-1) | |
|--|--|
| Partition coefficient n-octanol/water (Log Pow) 2.5 at 25 °C | |
| Bioaccumulative potential Not established. | |

12.4. Mobility in soil

| CAMPHOR (76-22-2) | |
|---|-----------|
| Partition coefficient n-octanol/water (Log Koc) | env. 2.67 |

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

: 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 contents/container to agreemented companies according to national

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.

SECTION 14: Transport information

In accordance with ADR

14.1. UN number

UN-No. (ADR) : UN 2924

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Transport document description (ADR) : UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (P-CYMENE(99-87-6);

CARVACROL(499-75-2)), 3 (8), III, (D/E), ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3 (8)
Danger labels (ADR) : 3, 8

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14.4. Packing group

Packing group (ADR) : III

14.5. Environmental hazards

Dangerous for the environment : Yes

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : FC
Special provisions (ADR) : 274
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions : TP1, TP28

(ADR)

Tank code (ADR) : L4BN
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.) : 38

Orange plates

38 2924

Tunnel restriction code (ADR) : D/E

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) | WINTER SAVORY OIL ; P-CYMENE ; D- LIMONENE ; EUCALYPTOL ; GAMMA- TERPINENE | 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) | WINTER SAVORY OIL ; CARVONE ; CARVACROL ; LINALOOL ; D-LIMONENE ; GERANIOL ; GAMMA-TERPINENE | 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 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c) | WINTER SAVORY OIL ; P-CYMENE ; 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 class 4.1 |

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| 40. | WINTER SAVORY OIL ; P-CYMENE ; | Substances classified as flammable gases category 1 or 2, flammable liquids |
|-----|-----------------------------------|--|
| | CAMPHOR ; D-LIMONENE ; EUCALYPTOL | categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures |
| | ; GAMMA-TERPINENE | 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. |
| | | |

WINTER SAVORY OIL is not on the REACH Candidate List

WINTER SAVORY OIL is not on the REACH Annex XIV List

WINTER SAVORY 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.

WINTER SAVORY 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 : ca. 15 (10.5 – 21.5) %

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (ID No. 6246)

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 acror | ıyms: | |
|-------------------------|---|--|
| 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 | |
| IATA | 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 |

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 Data sources

> 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

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) 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 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| 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 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B |
| 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. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |

SDS EU (REACH Annex II)

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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.