

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 6/7/2016 Revision date: 12/16/2020 Supersedes: 6/7/2016 Version: 1.2

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

1.1. Product identifier

| Product form Substance name EC-No. CAS-No. Product code Synonyms Broduct group | : Substance : DILL SEED OIL : 289-790-8 : 90028-03-8 : ANEHE01 : CAS N° USA : 8006-75-5 : Ecceptial ail |
|--|---|
| 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/Professional use spec Industrial use,Professional useFor 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 <u>exaflor@orange.fr</u> - <u>www.exaflor.co</u>

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

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

| Flammable liquids, Category 3 | H226 |
|---|------|
| Skin corrosion/irritation, Category 2 | H315 |
| Skin sensitisation, Category 1 | H317 |
| Aspiration hazard, Category 1 | H304 |
| Hazardous to the aquatic environment — Acute Hazard, Category 1 | H400 |
| Hazardous to the aquatic environment — Chronic Hazard, Category 1 | H410 |
| Full text of H statements : see section 16 | |

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



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

| o | Danger H226 - Flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H410 - Very 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/bond container and receiving equipment. P241 - Use explosion-proof ventilating equipment. P261 - Avoid breathing dust, fume, mist, vapours. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. P302+P352 - IF ON SKIN: Wash with plenty of water. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P321 - Specific treatment (see Read label before use. on this label). P331 - Do NOT induce vomiting. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use carbon dioxide (CO2) to extinguish. P391 - Collect spillage. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container to contents/container to agreemented companies according to national regulations. |

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

| Name | : DILL SEED OIL |
|---------|-----------------|
| CAS-No. | : 90028-03-8 |
| EC-No. | : 289-790-8 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------|--|---------|---|
| CARVONE | (CAS-No.) 99-49-0 (EC-No.) 218-827-2 | 45 – 60 | Skin Sens. 1, H317 |
| D-LIMONENE | (CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 | 27 – 45 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

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

| SECTION 4: First aid measures | |
|--|--|
| 4.1. Description of first aid measures | |
| 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: Gently wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see Read label before use. on this label). If skin irritation or rash occurs: Gently wash with plenty of soap and water. Immediately call a POISON CENTER/doctor. |
| 4.2. Most important symptoms and effects | , both acute and delayed |
| Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after ingestion | May cause an allergic skin reaction. Causes skin irritation. May be fatal if swallowed and enters airways. |

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

| SECTION 5: Firefighting measures | | |
|-------------------------------------|---|--|
| 5.1. Extinguishing media | | |
| No additional information available | | |
| 5.2. Special hazards arising fi | om the substance or mixture | |
| Fire hazard Explosion hazard | Flammable liquid and vapour.May form flammable/explosive vapour-air mixture. | |
| 5.3. Advice for firefighters | | |

No additional information available

| SECTION 6: Accidental release measures | | |
|---|---|--|
| 6.1. Personal precautions, protective e | 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 | | |
| No additional information available | | |
| 6.1.2. For emergency responders | | |
| No additional information available | | |
| 6.2. Environmental precautions | | |
| Avoid release to the environment. | | |
| 6.3. Methods and material for containment and cleaning up | | |
| No additional information available | | |
| 6.4. Reference to other sections | | |

No additional information available

Safety Data Sheet

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

| SECTION 7: Handling and storage | |
|--|--|
| 7.1. Precautions for safe handling | |
| Additional hazards when processed Precautions for safe handling Hygiene measures | Handle empty containers with care because residual vapours are flammable. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing spray, mist, dust, vapours. Wash hands 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, includin | ng any incompatibilities |
| Technical measures | : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating equipment. |
| Storage conditions | : Keep container tightly closed. |
| Incompatible materials | : Heat sources. |
| Maximum storage period | : 3 year Shelf life to guarantee the quality and properties of the product; After this period, it is recommended to control organoleptic and physicochemical properties before using the raw material. |
| Storage temperature | : ≈ 18 (5 – 25) °C |
| 7.3. Specific end use(s) | |

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | : Liquid |
|---|--|
| Colour | : light yellow. Yellow. |
| Odour | : characteristic. anise note. |
| Odour threshold | : No data available |
| рН | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 57 °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 | : 0.894 – 0.92 |
| Solubility | : Insoluble in water. Solubility in ethanol. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |

Safety Data Sheet

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

| 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

Refractive index

: 1.481 – 1.492

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

| 11.1. Information on toxicological effects | | |
|--|------------------|--|
| Acute toxicity (oral) | : Not classified | |
| Acute toxicity (dermal) | : Not classified | |
| Acute toxicity (inhalation) | : Not classified | |

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

| D-LIMONENE (5989-27-5) | |
|----------------------------|--------------------------|
| LD50 oral rat | 4400 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| Skin correction/irritation | · Causes skin irritation |

| : Not classified |
|--|
| : May cause an allergic skin reaction. |
| : Not classified |
| : Not classified |
| |

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

| D-LIMONENE (5989-27-5) | |
|--------------------------|---|
| IARC group | 3 - Not classifiable |
| Reproductive toxicity : | Not classified |
| STOT-single exposure : | Not classified |
| STOT-repeated exposure : | Not classified |
| Aspiration hazard : | May be fatal if swallowed and enters airways. |

| SECTION 12: Ecological information | |
|--|---|
| 12.1. Toxicity | |
| Ecology - water Hazardous to the aquatic environment, short-term (acute) | Very toxic to aquatic life with long lasting effects.Very toxic to aquatic life. |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects. |

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

| 12.2. Persistence and degradability | |
|-------------------------------------|---|
| DILL SEED OIL (90028-03-8) | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |

| CARVONE (99-49-0) | |
|--|--|
| Persistence and degradability Not established. | |
| | |

| D-LIMONENE (5989-27-5) | |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |

12.3. Bioaccumulative potential

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

| D-LIMONENE (5989-27-5) | | |
|--|------------------|--|
| Bioaccumulative potential | Not established. | |
| | | |
| 12.4. Mobility in soil | | |
| No additional information available | | |
| 12.5. Results of PBT and vPvB assessment | | |
| No additional information available | | |

12.6. Other adverse effects

No additional information available

Safety Data Sheet

| according to Regulation (EC) No. 1907/2006 (REACH) wi | ith its amendment Regulation (EU) 2015/830 |
|--|--|
| SECTION 13: Disposal consideration | S |
| 13.1. Waste treatment methods | |
| Product/Packaging disposal recommendations Additional information Ecology - waste materials | Dispose of contents/container to contents/container to agreemented companies according to national regulations. Handle empty containers with care because residual vapours are flammable. Hazardous waste due to toxicity. |
| SECTION 14: Transport information | |
| In accordance with ADR / RID / IMDG / IATA / AD | N |
| 14.1. UN number | |
| UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) | UN 1169 Not applicable Not applicable Not applicable Not applicable |
| 14.2. UN proper shipping name | |
| Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) | EXTRACTS, AROMATIC, LIQUID Not applicable Not applicable Not applicable Not applicable UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS |
| 14.3. Transport hazard class(es) | |
| ADR Transport hazard class(es) (ADR) Danger labels (ADR) | |
| IMDG Transport hazard class(es) (IMDG) | : Not applicable |

ΙΑΤΑ

Transport hazard class(es) (IATA)

ADN

Transport hazard class(es) (ADN)

: Not applicable



: Not applicable

:



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

| RID | |
|---|--|
| Transport hazard class(es) (RID) | : Not applicable |
| | - Weight - Contraction - Contr |
| 14.4. Packing group | |
| Packing group (ADR) | : 111 |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN) | : Not applicable |
| Packing group (RID) | : Not applicable |
| 14.5. Environmental hazards | |
| Dangerous for the environment | : Yes |
| Marine pollutant | : Yes |
| Other information | : No supplementary information available |
| 14.6. Special precautions for user | |
| Overland transport | |
| Classification code (ADR) | : F1 |
| Special provisions (ADR) | : 601, 640E |
| Limited quantities (ADR) | : 51 |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | |
| 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 | 30 |
| | 1169 |
| Tunnel restriction code (ADR) | : D/E |
| Transport by sea No data available | |
| Air transport No data available | |
| • • • · · · · · · · · · · · · · · · · · | |

No data available **Rail transport**

Inland waterway transport

No data available

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

Not applicable

Safety Data Sheet

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

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 a | according to Annex XVII of t | he REACH Regulation (EC) No 1907/2006: |
|---|------------------------------|--|
| ine rene mig recence are applicable i | | |

| Reference code | Applicable on | Entry title or description |
|----------------|--------------------------------------|--|
| 3. | CARVONE ; D-LIMONENE | Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 |
| 3(a) | DILL SEED OIL ; D-LIMONENE | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |
| 3(b) | DILL SEED OIL ; CARVONE ; D-LIMONENE | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 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) | DILL SEED OIL ; 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 |
| 40. | DILL SEED OIL ; D-LIMONENE | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

DILL SEED OIL is not on the REACH Candidate List

DILL SEED OIL is not on the REACH Annex XIV List

DILL SEED 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.

DILL SEED 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

15.1.2. National regulations

Germany

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV) : WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 3812)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |

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

| H315 | Causes skin irritation. |
|------|---|
| H317 | May cause an allergic skin reaction. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

SDS EU (REACH Annex II)

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