

Safety Data Sheet

CEDARWOOD VIRGINIA ESSENTIAL OIL

According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2020/878)

Version:1
Version date:27/09/2021
Language:EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Trade name/designation : CEDARWOOD VIRGINIA ESSENTIAL OIL
CAS No : 85085-41-2

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

Relevant identified uses : Fragrance ingredient for use in consumer products.
Not for personal use in this form or concentration.
Intended to be used in the manufacture of products for consumers.

1.3. Details of the supplier of the safety data sheet

Supplier : Name: Hermitage Oils srl
Street: Località Petrognano 14, 52100 Arezzo (AR)
Country: Italy
Telephone: +39 (0) 575 362831
E-mail: info@hermitageoils.com

1.4. Emergency Telephone Number

Italy: Bergamo: +39 (0) 800 883 300, Florence: +39 (0) 55 794 7819, Foggia: +39 (0) 881 732 326, Genoa: +39 (0) 10 563 62 45, Milan: + 39 (0) 02 6610 1029, Padua: +39 (0) 49 827 50 78, Pavia: +39 (0) 38 224 444, Rome: +39 (0) 06 305 43 43, Turin: +39 (0) 011 663 7637

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

Hazards identification

| Classification | Hazard statements (H) |
|-------------------|---|
| Asp. Tox. 1 | H304 May be fatal if swallowed and enters airways. |
| Skin Irrit. 2 | H315 Causes skin irritation. |
| Skin Sens. 1B | H317 May cause an allergic skin reaction. |
| Aquatic Chronic 2 | H411 Toxic to aquatic life with long lasting effects. |

2.2. Label elements

Labelling

Hazard pictograms



Signal word

Danger

Product identifiers

-

Hazard Statements

H304 - May be fatal if swallowed and enters airways.

| | |
|---------------------------------------|---|
| Supplemental Hazard information (EU) | H315 - Causes skin irritation. |
| Precautionary Statements - General | H317 - May cause an allergic skin reaction. |
| Precautionary Statements - Prevention | H411 - Toxic to aquatic life with long lasting effects. |
| | - |
| | - |
| Precautionary Statements - Response | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. |
| | P264 - Wash ... thoroughly after handling. |
| | P273 - Avoid release to the environment. |
| Precautionary Statements - Storage | P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/... |
| Precautionary Statements - Disposal | P302+P352 - IF ON SKIN: Wash with plenty of water/... |
| | P405 - Store locked up. |
| | - |

Contains: [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

2.3. Other hazards

Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

| Substance | C (%) | Classification | Specific concentration limits | Note |
|---|-------------------|---|-------------------------------|------|
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene CAS N°:469-61-4 EC N°:207-418-4 IDX N°: | 30.0% ≤ C < 40.0% | H304: May be fatal if swallowed and enters airways. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. | - | - |
| [3R-(3 α ,3 $\alpha\beta$,6 α ,7 β ,8 $\alpha\alpha$)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol CAS N°:77-53-2 EC N°:201-035-6 IDX N°: | 20.0% ≤ C < 30.0% | H411: Toxic to aquatic life with long lasting effects. | - | - |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene CAS N°:546-28-1 EC N°:208-898-8 IDX N°: | 5.0% ≤ C < 7.5% | H304: May be fatal if swallowed and enters airways. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. | M=10 | - |

3.3. Remark

Text phrases and H- EUH-: see section 16.
Natural product

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

| | | |
|---------------------|---|---|
| General information | : | In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Do not leave affected person unattended. Keep affected person warm, still and covered. |
|---------------------|---|---|

| | | |
|------------------------------------|---|--|
| Following inhalation | : | Remove person to fresh air and keep comfortable for breathing. No resuscitation mouth-to-mouth or mouth-to-nose. Ambu use a mask or respirator. If breathing is irregular or stopped, administer artificial respiration. |
| Following skin contact | : | Change contaminated, saturated clothing. Take off contaminated clothing. In case of skin irritation, consult a physician. After contact with skin, wash immediately with plenty of water and soap. |
| Following eye contact | : | In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Following ingestion | : | Never give anything by mouth to an unconscious person or a person with cramps. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| Self-protection of the first aider | : | First aider: Pay attention to self-protection! |

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

| | | |
|----------------------|---|------------------------|
| Notes for the doctor | : | Treat symptomatically. |
|----------------------|---|------------------------|

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

| | | |
|------------------------------|---|---|
| Suitable extinguishing media | : | In the event of fire, adequate extinguishers should be used. Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment. |
|------------------------------|---|---|

5.2. Special hazards arising from the substance or mixture

- No specific hazard known.

5.3. Advice for firefighters

- No specific advice.

5.4. Additional information

Not available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Use personal protection equipment.
- Remove persons to safety.
- Use appropriate respiratory protection.
- Provide adequate ventilation.

6.2. Environmental precautions

- Ensure that waste is collected and contained.
- In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- Avoid release to the environment.
- Cover drains.
- Ensure all waste water is collected and treated via a waste water treatment plant.
- Do not allow to enter into soil/subsoil.
- Do not allow to enter into surface water or drains.

- Retain contaminated washing water and dispose it.
- Contain leaks or spills within cabinets with removable trays.

6.3. Methods and material for containment and cleaning up

- Treat the recovered material as prescribed in the section on waste disposal.
- Collect in closed and suitable containers for disposal.
- Clean contaminated objects and areas thoroughly observing environmental regulations.
- Collect spillage.
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Wipe up with absorbent material (eg. cloth, fleece).

6.4. Reference to other sections

- Safe handling: see section 7.
- Disposal: see section 13.
- Personal protection equipment: see section 8.

6.5. Additional information

Not available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

PROTECTIVE MEASURES

- Avoid contact with skin, eyes and clothes.
- If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.
- Provide adequate ventilation as well as local exhaustion at critical locations.
- Wear personal protective clothing (see section 8).
- Sewers and ducts must be protected against the entry of the product.
- Provide for retaining containers, eg. floor pan without outflow.
- Avoid breathing gas/fumes/vapour/spray.

Advices on general occupational hygiene

- Wash hands before breaks and after work.
- Remove contaminated, saturated clothing.
- Work in well ventilated zones or use proper respiratory protection.
- Wash contaminated clothing before reuse.
- Street clothing should be stored separately from work clothing.

7.2. Conditions for safe storage, including any incompatibilities

- Keep container tightly closed in a dry, cool, and well-ventilated place.
- Keep container in upright position in order to prevent leakage.

Requirements for storage rooms and vessels

- Store locked up.
- Use isolated drainage to prevent discharge to soil.

Advice on joint storage

- Keep away from food, drink and animal feedingstuffs.

7.3. Specific end uses

- Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.
Not available

8.2. Exposure controls

Appropriate engineering controls

Maintain adequate local and general ventilation where product is handled and dispensed.

Personal protection equipment



Eye/face protection
Skin protection

: Suitable eye protection: Adequate safety glasses should be used.

: **Hand protection:**

- Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals.
- Preferred glove barrier materials: Neoprene and Nitrile.
- When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended.
- When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended.
- Thickness > or = 0,2mm.
- NOTICE:
- The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Body protection:

- Wear protective clothing, overall if necessary to limit the odour contamination of personal clothing.
- Individual washing routines should be followed after any potential contact.

Respiratory protection

: Suitable respiratory protection apparatus: Where ventilation (LEV) is inadequate to prevent any inhalation of substances, use adequate respiratory apparatus.

Environmental exposure controls

Not available at this time. Minimize release to the environment.

8.3. Additional information

Avoid exposing to high temperature during processing.

Maintain adequate local and general ventilation where product is handled.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Physical state: | Liquid |
| Colour: | Pale Yellow To Yellow |
| Odour: | Characteristic Strong Odour According To The Commercial Description Of The |
| Odour threshold: | Not available |
| pH: | Not available |
| Melting point/freezing point: | -80 °c (oeed 102) |
| Initial boiling point and boiling range: | 252.8°C |

| | |
|---|--|
| Flash point: | 99°C |
| Evaporation rate: | Not available |
| Flammability: | Not Applicable |
| Upper/lower flammability or explosive limits: | Not available |
| Vapour pressure: | Vp = 2.5 Pa At 25°C (oecd 104) |
| Vapour density: | Not available |
| Relative density: | 0.952 At 20°C (oecd 109) |
| Solubility(ies): | 0.03 - 29.25 Mg/l At 25°C (qsar-ws) |
| Partition coefficient: n-octanol/water (Log KOC): | Partition Coefficient Log Kow = 4.33 - 7.02 (qsarlogkow) |
| Auto-ignition temperature: | 260 °c At >= 1000.2 - <=1023.9hpa (method A15) |
| Decomposition temperature: | Not available |
| Viscosity: | Not available |
| Explosive properties: | Not available |
| Oxidising properties: | Not available |

9.2. Other safety information

Appearance : LIQUID COULD CRYSTALLIZE.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No reaction known with water.

10.2. Chemical stability

No reaction known with water.

10.3. Possibility of hazardous reactions

Not known.

10.4. Conditions to avoid

Avoid temperatures above or at least 5 °C below flash point for any flammable liquids.

Do not heat closed containers.

Avoid contact with oxidizing agents.

10.5. Incompatible materials

Not known.

10.6. Hazardous decomposition products

Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

10.7. Additional information

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Acute oral toxicity

Data for mixture

| | |
|-----------|-----------------|
| Species | : Rat, Gavage |
| Sex | : Not available |
| Guideline | : Not available |

| Subendpoint | Operator | Value | Unit |
|-------------|----------|-------|----------|
| LD50: | > | 5000 | mg/kg bw |

Conclusion : Not available

The product is not classified.

Substances

Not available

11.2. Acute skin toxicity

Data for mixture

Species : Rabbit
 Sex : Not available
 Guideline : OECD 402
 Exposure duration/value : Not available
 Exposure duration/unit : Not available

| Subendpoint | Operator | Value | Unit |
|-------------|----------|-------|----------|
| LD50: | > | 5000 | mg/kg bw |

Conclusion : Not available

The product is not classified.

Substances

Not available

11.3. Acute inhalation toxicity

Data for mixture

The product is not classified.

Substances

Not available

11.4. Skin corrosion

Data for mixture

Test type : In vitro Skin Corrosion
 Species : Human skin model
 Sex : Not available
 Guideline : OECD 431
 Exposure duration/value : Not available
 Exposure duration/unit : Not available

| Subendpoint | Basis | Time Point | Reversibility |
|-------------|-------|------------|---------------|
| - | - | - | - |

Conclusion : not corrosive

Test type : In vitro Skin irritation
 Species : Not available
 Sex : Not available
 Guideline : OECD 439
 Exposure duration/value : Not available
 Exposure duration/unit : Not available

| Subendpoint | Basis | Time Point | Reversibility |
|-------------|-------|------------|---------------|
| - | - | - | - |

Conclusion : Irritant

The product is not classified.

Substances

Not available

11.5. Eye damage

Data for mixture

| | |
|----------------|--|
| Test type | : In vitro Bovine corneal opacity and permeability (BCOP) test |
| Species | : Not available |
| Sex | : Not available |
| Guideline | : OECD 437 |
| Type of method | : Not available |
| Concentration | : Not available |

| Subendpoint | Basis | Time Point | Reversibility |
|-------------|-------|------------|---------------|
| - | - | - | - |

Conclusion : Non-irritating

The product is not classified.

Substances

Not available

11.6. Skin sensitisation

Data for mixture

| | |
|-------------------------|--|
| Species | : Not available |
| Sex | : Not available |
| Guideline | : Local Lymph Node Assay (LLNA) OECD 429 |
| Exposure duration/value | : Not available |
| Exposure duration/unit | : Not available |
| Concentration | : Not available |

| Subendpoint | Value | Unit |
|-------------|-------|------|
| - | - | - |

Conclusion : Sensitising to skin

The product is classified Skin Sens. 1B according to the referenced regulation.

May cause an allergic skin reaction.

Substances

Not available

11.7. STOT SE

Data for mixture

The product is not classified.

Substances

Not available

11.8. STOT RE

Data for mixture

The product is not classified.

Substances

Not available

11.9. Carcinogenicity

Data for mixture

The product is not classified.

Substances

Not available

11.10. Reproductive and Developmental Toxicity

Data for mixture

| | |
|-----------|--|
| Test type | : Combined Repeat. Dose Tox. & Reprod./Develop. Tox. Screening |
| Species | : Rat |
| Sex | : Not available |

Guideline : OECD 422, Dietary,
 Route of administration : Not available
 Exposure duration/value : 28
 Exposure duration/unit : days
 Concentration : Not available

| Subendpoint | Results/Sex | Operator | Value | Unit |
|---------------------|-------------|----------|-------|-----------|
| NOAEL (development) | - | = | 207 | mg/kg/day |
| NOAEL (fertility) | - | > | 381 | mg/kg/day |
| NOAEL | - | < | 207 | mg/kg/day |

Conclusion : Not available

The product is not classified.

Substances

Not available

11.11. In vitro genotoxicity

Data for mixture

Bacterial Reverse Mutation test (Ames) (Salmonella + E. Coli, OECD 471, With and without S9, 5 strains): Non mutagenic. In Vivo Mammalian Erythrocyte Micronucleus Test (Mouse, OECD 474, Dermal): Non mutagenic. In vitro Mammalian Cell Gene Mutation Tests Using the Thymidine Kinase Gene (OECD 490, With and without S9): Non mutagenic.

Substances

Not available

11.12. Respiratory sensitisation

Data for mixture

The product is not classified.

Substances

Not available

11.13. Additional information

Not available

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Alga, Growth Inhibition Test : 72 h EL50 = 2.9 mg/l.
 Daphnia sp. Acute Immobilisation Test (OECD 202, Static): 48h EL50 = 1.3 mg/l.
 Activated Sludge, Respiration Inhibition Test (OECD 209):
 3h EC50 > 1620 mg/l.
 3h EC10 = 301 mg/l.

12.2. Persistence and degradability

Ready Biodegradation - Manometric Respirometry Test (OECD 301F, Sludge): Ultimately biodegradable (58% in 28 day(s)).

12.3. Bioaccumulative potential

Partition coefficient Log Kow = 4.33 - 7.02 (QSAR-LogKow).

12.4. Mobility in soil

Adsorption coefficient (OECD 121): Log Koc = 1.74 - 5.61.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

No data available.

12.7. Additional ecotoxicological information

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

- The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.





Waste treatment options

- Waste requiring special supervision.
- Dispose of waste according to applicable legislation.
- Delivery to an approved waste disposal company.
- Non-contaminated packages must be recycled or disposed of.
- Contaminated packing must be completely emptied and can be reused after proper cleaning.
- Packing which cannot be properly cleaned must be disposed of.
- Handle contaminated packages in the same way as the substance itself.
- Dispose of waste according to applicable legislation.

Remark

- For recycling, contact manufacturer.
- Collect the waste separately.
- Consult the appropriate authorities about waste disposal.
- Do not mix with other wastes.
- The waste is to be kept separate from other types of waste until its disposal.
- Concerning the waste it has to be checked, whether a transport authorisation is required.

SECTION 14: TRANSPORT INFORMATION

| | Land transport (ADR/RID) | Inland waterway transport (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI/IATA-DGR) |
|----------------------------------|---|---|---|---|
| 14.1. UN number | 3082 | 3082 | 3082 | 3082 |
| 14.2. UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS |
| 14.3. Transport hazard class(es) | | | | |
| Class or Division | 9 | 9 | 9 | 9 |
| Hazard label(s) |  |  |  |  |
| 14.4. Packing group | III | III | III | III |

14.5. Environmental hazards

UNO, ADR/RID, IMDG-Code:

Environmental hazards: yes.

ICAO-IATA:

Environmental hazards: Not applicable.

14.6. Special precautions for user

Refer to Section 7.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

14.8. Additional information

Not available

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.
This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.
Not available

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
For this substance/mixture a chemical safety assessment has been elaborated.
For this mixture, the relevant data of the Substances' Chemical safety assessment are integrated in the sections of the SDS.

15.3. Additional information

Not available

SECTION 16: OTHER INFORMATION

Creation date: 27/09/2021
Version date: 27/09/2021
Printing date: 11/10/2021

16.1. Indication of changes

Not applicable (first edition of the MSDS).

16.2. Abbreviations and acronyms

CAS: Chemical Abstract Service Number.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods Code.
DPD Dangerous Preparation Directive.
UN number: United Nations number.
No EC: European Commission Number.
ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.
ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.
CLP: Classification, labeling and packaging.
VPvB: very persistent and very bioaccumulative substances.

16.3. Key literature references and sources for data

No data available.

16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

| | | |
|------|---------------|---|
| H304 | Asp. Tox. 1 | May be fatal if swallowed and enters airways. |
| H315 | Skin Irrit. 2 | Causes skin irritation. |
| H317 | Skin Sens. 1B | May cause an allergic skin reaction. |

| | | |
|------|-------------------|---|
| H400 | Aquatic Acute 1 | Very toxic to aquatic life. |
| H410 | Aquatic Chronic 1 | Very toxic to aquatic life with long lasting effects. |
| H411 | Aquatic Chronic 2 | Toxic to aquatic life with long lasting effects. |

16.6. Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

16.7. Additional information

Not available

The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.