

Safety Data Sheet

BLOOD ORANGE ESSENTAIL OIL

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

Version:1
Version date:30/09/2021
Language:EN

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

Trade name/designation : BLOOD ORANGE ESSENTAIL OIL
EC No : 232-433-8
CAS No : 8008-57-9

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

Relevant identified uses : Biological Definition: Citrus Aurantium Dulcis Orange Peel Oil the volatile oil obtained from fresh orange peels.
Flavours and Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.
Uses advised against : Not for personal use in this concentration.

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)	
Flam. Liq. 3	H226	Flammable liquid and vapour.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling

Hazard pictograms



Signal word

Danger

Product identifiers

Limonene, Pinene, Myrcene, Decanal, Linalool.

Hazard Statements

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.
 H400 - Very toxic to aquatic life.
 H411 - Toxic to aquatic life with long lasting effects.

Supplemental Hazard information (EU)

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Precautionary Statements - General

-

Precautionary Statements - Prevention

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.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 - Wash ... thoroughly after handling.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P331 - Do NOT induce vomiting.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P362 - Take off contaminated clothing.
 P370+P378 - In case of fire: Use... 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 approved disposal site, in accordance with local regulations.

Precautionary Statements - Response

Precautionary Statements - Storage

Precautionary Statements - Disposal

Contains: (R)-p-mentha-1,8-diene, 7-methyl-3-methyleneocta-1,6-diene

2.3. Other hazards

Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Substance	C (%)	Classification	Specific concentration limits	Note
(R)-p-mentha-1,8-diene CAS N°:5989-27-5 EC N°:227-813-5 IDX N°:601-029-00-7	≤ 99.0%	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. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.		
7-methyl-3-methyleneocta-1,6-diene CAS N°:123-35-3 EC N°:204-622-5 IDX N°:	C≤ 3.0%	H226: Flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H319: Causes serious eye irritation	-	-
linalool CAS N°:78-70-6 EC N°:201-134-4 IDX N°:603-235-00-2	C≤ 2.0%	H315: Causes skin irritation.	-	-
decanal CAS N°:112-31-2 EC N°:203-957-4 IDX N°:	C≤ 2.0%	H315: Causes skin irritation. H412: Harmful to aquatic life with long lasting effects	-	-
pin-2(3)-ene CAS N°:80-56-8 EC N°:201-291-9 IDX N°:	C≤ 1.0%	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.	-	-

The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

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	:	After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Change contaminated, saturated clothing. In case of skin irritation, consult a physician.
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 : Small fire: Use carbon dioxide, dry chemical, foam. Spray to base of flames.
Large fire: Use water spray or fog. Cool containers with a water jet to prevent pressure build up, autoignition or explosion.

Unsuitable extinguishing media : Pressurised water jet.

5.2. Special hazards arising from the substance or mixture

- Vapour may form an explosive mixture with air. In case of fire, Carbon monoxide, Carbon dioxide, smoke and soot may be liberated.

5.3. Advice for firefighters

- Standard procedure for chemical fires. Spray extinguishing media to base of flames. Wear protective clothing. Avoid inhalation of vapours. Wear suitable respiratory equipment. In case of ignition, cool the endangered containers.

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.
- Provide adequate ventilation.
- Use appropriate respiratory protection.

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.
- Use only in well-ventilated areas.
- Vapours/aerosols should be exhausted directly at the point of origin.
- Avoid breathing gas/fumes/vapour/spray.

Advices on general occupational hygiene

- Wash hands before breaks and after work.
- Remove contaminated, saturated clothing immediately.
- 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

- Ensure adequate ventilation of the storage area.
- Ground/bond container and receiving equipment.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Store locked up.
- Use isolated drainage to prevent discharge to soil.

Advice on joint storage

- Keep away from food, drink and animal feedingstuffs.
- Keep away from clothing and other combustible materials.
- Keep only in the original container in a cool, well-ventilated place, away from highly flammable substances.

Further information on storage conditions

- Use explosion-proof electrical/ventilating/lighting/.../equipment.
- Use only non-sparking tools.

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

Not available

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaustion at critical locations.

Personal protection equipment



- | | | |
|------------------------|---|---|
| Eye/face protection | : | Suitable eye protection: Avoid contact with eyes. Wear approved safety goggles with built in frame tested to EN166 |
| Skin protection | : | Hand protection: Avoid all skin contact. Wear chemical resistant gloves (PVC) tested to EN374.
Body protection: Wear apron or protective clothing in case of splashes. |
| Respiratory protection | : | Suitable respiratory protection apparatus: Avoid breathing vapours. Respiratory equipment should not be necessary with adequate ventilation. |

Environmental exposure controls

Avoid discharging into drainage water. Only eliminate by authorized companies.

8.3. Additional information

Process Conditions: Provide eyewash station.

Hygiene measures :

Good personal hygiene practices are always advisable, especially when working with chemicals/oils. Keep away from foodstuffs, beverages and feed.

Personal Protection : Avoid inhalation and contact with skin and eyes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Not available
Odour:	Characteristic Of Orange
Odour threshold:	Not Determined
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	160°C
Flash point:	53°C
Evaporation rate:	(vs H2O): <1
Flammability:	Not available
Upper/lower flammability or explosive limits:	Not available
Vapour pressure:	0.97 Mm/hg @ 25.00°C
Vapour density:	> 1
Relative density:	0,84 - 0,87 Gr/ml @ 25.00 °c
Solubility(ies):	Not Soluble In Water
Partition coefficient: n-octanol/water (Log KOC):	Not available
Auto-ignition temperature:	235 °c
Decomposition temperature:	Not available
Viscosity:	1 Mpas

Explosive properties: Not available
 Oxidising properties: Not available

9.2. Other safety information

Appearance: From yellow to red liquid.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not present important reactivity hazard.

10.2. Chemical stability

Stable at normal conditions of storage.

10.3. Possibility of hazardous reactions

Not expected at normal conditions of use.

10.4. Conditions to avoid

Excessive heat, flames.

10.5. Incompatible materials

Acids, Alkalis, oxidising agents.

10.6. Hazardous decomposition products

Not expected under normal temperature conditions and recommended use.

10.7. Additional information

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Acute oral toxicity

Data for mixture

Species : Rat
 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 : Rat
 Sex : Not available
 Guideline : Not available
 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

Species : Rat
 Sex : Not available
 Guideline : Not available
 Route of administration : Not available
 Exposure duration/value : Not available
 Exposure duration/unit : Not available

Subendpoint	Results/Sex	Operator	Value	Unit
LD50:	-	>	5000	mg/kg

Conclusion : Not available

The product is not classified.

Substances

Not available

11.4. Skin corrosion

Data for mixture

Causes skin irritation (H315).

Substances

Not available

11.5. Eye damage

Data for mixture

Not classified as irritating today (source CSR).

Substances

Not available

11.6. Skin sensitisation

Data for mixture

May cause an allergic skin reaction (H317).

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

No tested (sources CSR).

Substances

Not available

11.10. Reproductive and Developmental Toxicity

Data for mixture

The product is not classified.

Substances

Not available

11.11. In vitro genotoxicity

Data for mixture

Negative (sources CSR).

Substances

Not available

11.12. Respiratory sensitisation

Data for mixture

The product is not classified.

Substances

Not available

11.13. Additional information

Aspiration hazard: May be fatal if swallowed and enters airways (H304).

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.2. Persistence and degradability

To be considered as readily biodegradable based on its ready biodegradability. Oil does not fulfil the criteria for persistence.

12.3. Bioaccumulative potential

H400 Very toxic to aquatic life with long lasting effects.

12.4. Mobility in soil

Considered as a readily biodegradable NCS. Based on the ready biodegradability of the NCS, simulation tests in surface water, sediment and soil are not required in accordance with column 2 of REACH Annex IX.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

Do not discharge into the environment especially not into waterways, sewers and the sea.

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	1169	1169	1169	1169
14.2. UN proper shipping name	LIQUID AROMATIC EXTRACTS	LIQUID AROMATIC EXTRACTS	LIQUID AROMATIC EXTRACTS	LIQUID AROMATIC EXTRACTS
14.3. Transport hazard class(es)				
Class or Division	3	3	3	3
Hazard label(s)				
14.4. Packing group	III	III	III	III

14.5. Environmental hazards

Environmentally hazardous substances/Marine pollutant.

14.6. Special precautions for user

This product contains flammables and dangerous for the environment. In case on pouring out, make sure label new packaging accordingly. Reproducing original label with relevant symbols.

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

Not additional data available.

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.

EU legislation

Regulation: Directive n°648/2004 (Allergenic fragrance ingredients N°1223/2009)

Substance	CAS	EC
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5
linalool	78-70-6	201-134-4

Regulation: REACH : Annex XVII (Restrictions)

Substance	CAS	EC
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(R)-p-mentha-1,8-diene	5989-27-5	227-813-5
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National regulations

Regulation: California proposition 65

Substance	CAS	EC
7-methyl-3-methyleneocta-1,6-diene	123-35-3	204-622-5

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:	30/09/2021
Version date:	30/09/2021
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)

H226	Flam. Liq. 3	Flammable liquid and vapour.
H304	Asp. Tox. 1	May be fatal if swallowed and enters airways.
H315	Skin Irrit. 2	Causes skin irritation.
H317	Skin Sens. 1	May cause an allergic skin reaction.
H319	Eye Irrit. 2	Causes serious eye irritation
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.
H412	Aquatic Chronic 3	Harmful 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.