

Safety Data Sheet

BERGAMOT TERPENES NATURAL ISOLATE

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

Version:1
Version date:23/09/2021
Language:EN

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

Trade name/designation : BERGAMOT TERPENES NATURAL ISOLATE

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

Not available

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency Telephone Number

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 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

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.

Supplemental Hazard information (EU)	H411 - Toxic to aquatic life with long lasting effects.
Precautionary Statements - General	-
Precautionary Statements - Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment.
Precautionary Statements - Response	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
Precautionary Statements - Storage	P331 - Do NOT induce vomiting.
Precautionary Statements - Disposal	P403+P235 - Store in a well-ventilated place. Keep cool. -

Contains: (R)-p-mentha-1,8-diene, pin-2(10)-ene

2.3. Other hazards

Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

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	C ≤ 75.0%	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. H410: Very toxic to aquatic life with long lasting effects.	M(Chronic)=1	-
pin-2(10)-ene CAS N°:127-91-3 EC N°:204-872-5 IDX N°:	C ≤ 10.0%	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.	-	-
linalool CAS N°:78-70-6 EC N°:201-134-4 IDX N°:603-235-00-2	C ≤ 3.0%	H315: Causes skin irritation. H319: Causes serious eye irritation	-	-
p-cymene CAS N°:99-87-6 EC N°:202-796-7 IDX N°:	C ≤ 1.0%	H226: Flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H411: Toxic to aquatic life with long lasting effects.	-	-
citral CAS N°:5392-40-5 EC N°:226-394-6 IDX N°:605-019-00-3	C ≤ 0.15%	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation	-	-

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.

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	:	CO ₂ , sand, chemical powder, foam.
Unsuitable extinguishing media	:	Water jet.

5.2. Special hazards arising from the substance or mixture

- Overheated drums can explode because of pressure rise.

5.3. Advice for firefighters

- Cool the containers in case of fire. Protect eyes and airways.

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

Exposure scenario (ES) is being drafted and will soon be.
Not available

8.2. Exposure controls

Appropriate engineering controls

Storage and manipulation of the substances only in a cool and well ventilated place.

Personal protection equipment



- | | | |
|------------------------|---|--|
| Eye/face protection | : | Suitable eye protection: Wear protective transparent polycarbonate safe goggles, scratch resistant, stackable. |
| Skin protection | : | <p>Hand protection:</p> <ul style="list-style-type: none"> - Wear chemical-resistant nitrile gloves (OVC) of type UNI ISO EN 374.1 Type C and compliant with European standards EN 420: 2003 + A1: 2009. - NBR (nitrile rubber) - Wash your hands thoroughly after handling the product. <p>Body protection:</p> <ul style="list-style-type: none"> - Avoid contact with the skin. - Use oilskin PVC aprons and chemical resistant nitrile gloves (OVC) of type UNI ISO EN 374.1 Type C and compliant with European standards EN 420: 2003 + A1: 2009. - Remove contaminated clothing. |
| Respiratory protection | : | <p>Suitable respiratory protection apparatus:</p> <ul style="list-style-type: none"> - In a well ventilated place no protection is required. - In case of excessive vapor inhalation, move to the open air. |

Environmental exposure controls

Avoid contaminating the soil, the water and the water bearing-stratum.
Isolate the deposits from the sewage.

8.3. Additional information

THERMAL HAZARDS: The substance does not present thermal hazards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Turpentine-like Odour With The Characteristic Smell Of
Odour threshold:	Not available
pH:	Not available
Melting point/freezing point:	<25°C
Initial boiling point and boiling range:	176°C
Flash point:	49°C
Evaporation rate:	Not available
Flammability:	Yes
Upper/lower flammability or explosive limits:	Not available
Vapour pressure:	~ 2 Mm.hg
Vapour density:	0,012 (compared To Air = 1,0)
Relative density:	0,8450 ÷ 0,861 At 15°C
Solubility(ies):	Non Soluble (20°C)
Partition coefficient: n-octanol/water (Log KOC):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	1,96÷ 2,086
Explosive properties:	The Substance Has No Explosive Properties
Oxidising properties:	Not available

9.2. Other safety information

REFRACTION INDEX (20°C): 1.470 ÷ 1474.

PHOTOSENSITIZING PROPERTIES: The substance has photosensitizing properties.

MISCIBILITY: Partially to complete miscibility in most all organic solvents.

COMBUSTION PROPERTIES: The substance has no corrosive properties.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is not reactive.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

It is unlikely that there are dangerous reactions.

10.4. Conditions to avoid

High temperatures, flames or other sources of ignition.

10.5. Incompatible materials

No risk of reaction of danger in case of contact with other materials.

10.6. Hazardous decomposition products

No risk of dangerous decomposition.

10.7. Additional information

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Acute oral toxicity

Data for mixture

The substance can present acute toxicity in case of aspiration.

No acute toxicity tests on this product as such have been conducted by RIFM.

Acute toxicity tests have been carried out on rectified bergamot oil and gave the following results appeared in the RIFM monograph on bergamot oil published in the journal "Food Cosmetic Toxicology" (FCT) 11, 1031, 1973: oral LD50 : >10 g/kg (mouse) (on the rectified oil) -(Fogleman, 1970a)

- The ingestion, even if accidental, can cause respiratory difficulties and lung damages.

Substances

Not available

11.2. Acute skin toxicity

Data for mixture

Species	:	(rabbit) (Fogleman, 1970a)
Sex	:	Not available
Guideline	:	Not available
Exposure duration/value	:	Not available
Exposure duration/unit	:	Not available

Subendpoint	Operator	Value	Unit
LD50:	>	20	g/kg

Conclusion : The extended exposition to vapors and the contact with the skin can cause allergies and/or sensitization.

Substances

Not available

11.3. Acute inhalation toxicity

Data for mixture

Species	:	(mouse) (on the rectified oil) -(Fogleman, 1970a)
Sex	:	Not available
Guideline	:	Not available
Route of administration	:	Ingestion
Exposure duration/value	:	Not available
Exposure duration/unit	:	Not available

Subendpoint	Results/Sex	Operator	Value	Unit
LD50:	-	>	10	g/kg

Conclusion : The ingestion, even if accidental, can cause respiratory difficulties and lung damages

Substances

Not available

11.4. Skin corrosion

Data for mixture

The substance is irritant for the skin but not corrosive.

Substances

Not available

11.5. Eye damage

Data for mixture

The substance can cause burning sensation or irritation to the eyes, but not serious damages.

Substances

Not available

11.6. Skin sensitisation**Data for mixture**

The substance can cause skin and/or respiratory Sensitization.

Substances

Not available

11.7. STOT SE**Data for mixture**

Not available

Substances

Not available

11.8. STOT RE**Data for mixture**

Not available

Substances

Not available

11.9. Carcinogenicity**Data for mixture**

The substance is not carcinogenic.

Substances

Not available

11.10. Reproductive and Developmental Toxicity**Data for mixture**

The substance is not toxic for the reproduction.

Substances

Not available

11.11. In vitro genotoxicity**Data for mixture**

The substance is not mutagenic.

Substances

Not available

11.12. Respiratory sensitisation**Data for mixture**

Not available

Substances

Not available

11.13. Additional information

ASPIRATION HAZARD: The substance presents a specific aspiration hazard.

IFRA SITUATION: The product complies with the IFRA requirements.

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

The substance is not toxic for the environment.

12.2. Persistence and degradability

The substance is biodegradable.

12.3. Bioaccumulative potential

The substance is not bioaccumulative.

12.4. Mobility in soil

The substance is not mobile.

12.5. Results of PBT and vPvB assessment

The substance is not PBT and/or vPvB.

12.6. Other adverse effects

None according to our knowledge.

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	2319	2319	2319	2319
14.2. UN proper shipping name	HYDROCARBURES TERPENIQUES, N.S.A.	HYDROCARBURES TERPENIQUES, N.S.A.	HYDROCARBURES TERPENIQUES, N.S.A.	HYDROCARBURES TERPENIQUES, N.S.A.
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

Wear: protective transparent polycarbonate safe goggles, scratch-resistant, stackable chemical resistant rubber latex gloves with flocked cotton inside (OVC) that comply with European standards EN 420: 2003 + A1: 2009; oilskin PVC aprons.

14.6. Special precautions for user

Not concerned.

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

Not 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
citral	5392-40-5	226-394-6
linalool	78-70-6	201-134-4

Regulation: REACH : Annex XVII (Restrictions)

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

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: 23/09/2021
Version date: 23/09/2021
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
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.