

Safety Data Sheet

ELDERFLOWER CO2 EXTRACT



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

Version:1
Version date:30/11/2021
Language:EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name/designation : ELDERFLOWER CO2 EXTRACT
BOTANICAL NAME: SAMBUCUS NIGRA SAMBUCUS
INCI NAME: NIGRA FL. EXTRACT

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

Relevant identified uses : FRAGRANCE AND/OR FLAVOR.

1.3. Details of the supplier of the safety data sheet

Supplier : Name: Hermitage Oils
Street: Località Petrognano 14, 52100 Arezzo (AR)
Country: Italy
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 1	H410	Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling

Hazard pictograms



Signal word

Danger

Product identifiers

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Hazard Statements

H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.

Supplemental Hazard information (EU)	H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary Statements - General	EUH208 - Contains linalool. May produce an allergic reaction.
Precautionary Statements - Prevention	-
Precautionary Statements - Response	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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/... - P501 - Dispose of contents and container in accordance with applicable local regulations.

2.3. Other hazards

Adverse human health effects and symptoms : CMR data without classification.
Allergens: Linalool.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Substance

Description

Substance: CNS, Complex natural substance (100% pure and natural) , Essential Oil Product of raw material from organic agriculture.

Name of substance oil: ELDERFLOWER CO2 EXTRACT

CAS No.: 84603-58-7

EINECS: 23-259-4

Concentration: 100 %

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

Substance	C (%)	Classification	Specific concentration limits	Note
ethanol CAS N°:64-17-5 EC N°:200-578-6 IDX N°:603-002-00-5	≤ 40.0%	H226: Flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H317: May cause an allergic skin reaction. H410: Very toxic to aquatic life with long lasting effects.	-	[1]
2-phenylethanol CAS N°:60-12-8 EC N°:200-456-2 IDX N°:	≤ 1.0%	H319: Causes serious eye irritation	-	-
linalool CAS N°:78-70-6 EC N°:201-134-4 IDX N°:603-235-00-2	≤ 1.0%	H315: Causes skin irritation.	-	-
Terpenediol CAS N°: 59-05-5 EC N°: IDX N°:	≤ 1.0%	H304: May be fatal if swallowed and enters airways.	-	-

[1] Substance for which maximum workplace exposure limits are available.

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. Remove victim out of the danger area. Keep affected person warm, still and covered.
Following inhalation	:	Remove the affected person from the danger zone and lay down. 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	:	Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, consult a physician. In case of skin reactions, 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. Protect unharmed eye.
Following ingestion	:	Never give anything by mouth to an unconscious person or a person with cramps. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER or doctor.
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.
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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	:	Carbon dioxide extinguishers or dry (Class ABC) fire extinguisher foam.
Unsuitable extinguishing media	:	Water spray.

5.2. Special hazards arising from the substance or mixture

- Possible production of toxic fumes in case of fire.

5.3. Advice for firefighters

- Avoid breathing vapors and fumes. Use a mask if necessary. Do not attack the fire with water: the water instead of stifling tends to fuel the fire. Essential oils have the ability to float on water. The fire spread is then accelerated. To extinguish an incipient fire based essential oil, use dry powder-specific ABC (or equivalent). If the fire is not important, it can be smothered by covering with earth, sand or blanket.

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.
- Ventilate affected area.
- 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.
- Remove fume condensates periodically from extraction hoods, leads and other surfaces (wear personal protective clothing!) as there is a risk of catching fire.
- Use only in well-ventilated areas.
- If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.
- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
- Provide earthing of containers, equipment, pumps and ventilation facilities.
- Take precautionary measures against static discharges.
- Provide adequate ventilation as well as local exhaustion at critical locations.
- Sewers and ducts must be protected against the entry of the product.

- Wear personal protective clothing (see section 8).
- Do not put any product-impregnated cleaning rags into your trouser pockets.
- Provide for retaining containers, eg. floor pan without outflow.
- 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

Occupational exposure limits

Substance	Value	Unit	Type
ethanol CAS: 64-17-5 (IE)	1,000	ppm	Exposure limit (15 minutes)
ethanol CAS: 64-17-5 (GB)	1,000	ppm	Exposure limit (8 hours)
ethanol CAS: 64-17-5 (GB)	1,920	mg/m ³	Exposure limit (8 hours)

Remark

Monitoring procedures recommended

If this product contains ingredients with exposure limits, it may be necessary to carry out an ongoing review of people, the atmosphere in the workplace or living organisms to determine the effectiveness of the ventilation or other control measures or the necessity to use protective equipment in the airways. It is important to refer to European Standard EN 689 containing the methods for assessing exposure by inhalation to chemical agents and national policy documents relating to methods for identifying dangerous substances.

Not available

8.2. Exposure controls

Appropriate engineering controls

Maintain air concentrations below occupational exposure standards. Use local exhaust ventilation. Use mechanical handling to reduce human contact with the products.

Personal protection equipment



Eye/face protection	:	Suitable eye protection: Wearing protective glasses is recommended.
Skin protection	:	Hand protection: Impervious gloves are resistant to Essential Oils and complying with an approved standard is recommended (nitrile or polyvinyl alcohol).
Respiratory protection	:	Suitable respiratory protection apparatus: Not normally needed in well ventilated areas (unless otherwise stated)
Remark	:	Thermal Hazard: Exposure to heat flow related to a fire or explosion can cause burns to varying degrees, depending on the distance at which it is located. Wear protective equipment is essential and an appropriate self-contained breathing apparatus.

Environmental exposure controls

Fill the commitments under local legislation on the protection of the environment

8.3. Additional information

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Yellow To Yellow-brownish
Odour:	Flowery, Typical Of The Raw Material
Odour threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	>78.2°C
Flash point:	<65°C
Evaporation rate:	Not available
Flammability:	Not available
Upper/lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Solubility(ies):	Soluble
Partition coefficient: n-octanol/water (Log KOC):	Not available
Auto-ignition temperature:	App. 363°C
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Vapours Can Form Explosive Mixtures With Air. All Sources Of Ignition Or Static Must Be Excluded
Oxidising properties:	Not available
Solubility in other Solvents:	Not available
Log Kow:	Not available

9.2. Other safety information

Density at 20°C: 0,785 - 0,809.

Solubility in ethanol (20 °C en g/l)- NF ISO 875: Soluble.

Main components: Aqua. Phenylethyl alcohol. Volatile compounds.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

This product is stable to shock, vibration and pressure under normal conditions of use. In the presence of light and heat, oxidation can occur.

10.2. Chemical stability

No significant changes in the composition in time respecting the storage conditions described in 7.2.

10.3. Possibility of hazardous reactions

According to our knowledge none in normal use.

10.4. Conditions to avoid

Do not heat to high temperature. Do not expose sealed containers in the sun. Keep away from sources of ignition.

10.5. Incompatible materials

P.V.C.

10.6. Hazardous decomposition products

No decomposition if used as directed.

10.7. Additional information

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Acute oral toxicity

Data for mixture

Harmful effect by swallowed (rat).

Substances

Not available

11.2. Acute skin toxicity

Data for mixture

Harmful effect by skin contact application on rabbit.

Substances

Not available

11.3. Acute inhalation toxicity

Data for mixture

Harmful effect by inhalation.

Substances

Not available

11.4. Skin corrosion

Data for mixture

Cause skin irritation.

Substances

Not available

11.5. Eye damage

Data for mixture

Cause serious ocular lesion.

Substances

Not available

11.6. Skin sensitisation

Data for mixture

May cause an allergic skin reaction.

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

Not available

Substances

Not available

11.10. Reproductive and Developmental Toxicity

Data for mixture

No significant effects or critical hazards.

Substances

Not available

11.11. Genotoxicity

Data for mixture

May cause genetic disorders.

Substances

Not available

11.12. Respiratory sensitisation

Data for mixture

Not available

Substances

Not available

11.13. Additional information

Aspiration hazard - May be fatal if inhaled and enters airways.

Information on ingredients - Methyl eugénol ($\leq 5,00\%$).

This substance and/or some of its components are affected by the Code of Practice of IFRA * effective, available on the website:

<http://www.ifraorg.org>.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Danger to the aquatic environment according to Regulation (EC) No 1272/2008 - Harmful to aquatic organisms, resulting in long-term adverse effects.

Acute aquatic toxicity.

Fishes - LC50 - 96h - N.A.

Algae - IC50 - 72h - N.A.

Acute aquatic toxicity**Data for mixture**

Animals/category	:	Daphnia
Species	:	Not available
Test duration	:	48
Unit	:	h
Guideline	:	Not available

Subendpoint	Value	Unit
EC50	21	mg/L

Remarks : immobilisation test

Harmful effect by swallowed (rat).

12.2. Persistence and degradability

Not available

12.3. Bioaccumulative potential

Not available

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

To this day, and according to our knowledge, no assessment has been conducted on the product.

12.6. Other adverse effects

Not 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	1170	1170	1170	1170
14.2. UN proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
14.3. Transport hazard class(es)				
Class or Division	3	3	3	3
Hazard label(s)				
14.4. Packing group	II	II	II	II

14.5. Environmental hazards

Not available

14.6. Special precautions for user

Rules for loading packages for road transport:

- Refer to Table 7.5.2 of ADR * prohibitions on mixed loading.
- Precautions relating to food, consumer goods and other feed.
- When loading packages, it is forbidden to smoke in the vicinity of vehicles.
- Check that packages are properly seated in the vehicle.
- Check that the driver has the safety equipment required and if the thresholds established by ADR * are exceeded.

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

Not available

14.8. Additional information

Customs Code : 3301 29 41 00.

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
linalool	78-70-6	201-134-4

Regulation: REACH : Annex XVII (Restrictions)

Substance	CAS	EC
ethanol	64-17-5	200-578-6

National regulations

Regulation: Texas_Aerosol, paint and glue

Substance	CAS	EC
ethanol	64-17-5	200-578-6

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: 30/11/2021
Version date: 30/11/2021
Printing date: 03/12/2021

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.

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.

