

SAFETY DATA SHEET

BERGAMOT & CEDAR FRAGRANCE OIL

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Bergamot & Cedar Fragrance Oil

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

Class and category of danger:

Skin Corrosion / Irritation Category 2

Sensitization - Skin Category 1

Hazardous to the Aquatic Environment - Acute Hazard Category 2

Hazardous to the Aquatic Environment - Long-term Hazard Category 2

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H411, Toxic to aquatic life with long lasting effects.

Label elements

Signal word: Warning

Hazard statements:

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H411, Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261, Avoid breathing vapour or dust.

P264, Wash hands and other contacted skin 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/eye protection/face protection.

P302/352, IF ON SKIN: Wash with plenty of soap and water.

P333/313, If skin irritation or rash occurs: Get medical advice/attention.

P362, Take off contaminated clothing and wash before reuse.

P391, Collect spillage.

P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

Pictograms:



Other hazards Other hazards:

Hydrocarbon Concentration %: 2.3800%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains:

Name	CAS	%	GHS Classification
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	54464-57-2	5-<10%	Skin Irrit. 2-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 1;H315-H317-H401-H410
alpha-Hexylcinnamaldehyde	101-86-0	5-<10%	Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 2;H303-H316-H317-H400-H411
E- and Z-Oxacyclohexadec-12(+13)-en-2-one	111879-80-2	1-<5%	Aquatic Acute 1-Aquatic Chronic 2;H400-H411
1-(2-tert.-Butyl cyclohexyloxy)-2- butanol	139504-68-0	1-<5%	Eye Irrit. 2B-Aquatic Acute 2-Aquatic Chronic 2;H320- H411
d-Limonene	5989-27-5	1-<5%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1- Aquatic Acute 1-Aquatic Chronic 3;H226-H304-H315-H317-H400-H412
Linalyl acetate	115-95-7	1-<5%	Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2B-Skin Sens. 1BAquatic Acute 3;H227-H315-H317-H320-H402
Acetic acid, anhydride, reaction products with	144020-22-4	1-<5%	Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic

1,5,10-trimethyl1,5,9-cyclo dodecatriene			1;H316-H317-H410
2,4-Dimethyl-4,4a,5,9btetrahydroindeno[1,2-d]-1,3-dioxin	27606-09-3	1-<5%	Acute Tox. 4;H302
Linalool	78-70-6	1-<5%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H227-H303-H315-H317-H319-H402
Dihydromyrcenol	18479-58-8	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2ASTOT SE 3-Aquatic Acute 3;H227-H303-H315-H319-H336-H402
6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone	33704-61-9	0.1-<1%	Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1BAquatic Acute 2-Aquatic Chronic 2;H303-H315-H317- H319-H411
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	0.1-<1%	Flam. Liq. 4-Skin Irrit. 2-Aquatic Acute 3-Aquatic Chronic 3;H227-H315-H412
3,7-Dimethyl-1,6-nonadien-3-ol	10339-55-6	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 3-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H227-H303-H316-H317-H319-H402
alpha-Methyl-1,3-benzodioxole5-propionaldehyde	1205-17-0	0.1-<1%	Acute Tox. 5-Skin Sens. 1B-Repr. 2-Aquatic Acute 2- Aquatic Chronic 2;H303-H317-H361-H411
Piperonal	120-57-0	0.1-<1%	Acute Tox. 5-Skin Sens. 1B-Repr. 2-Aquatic Acute 2; H303-H317-H361-H401
Hexyl salicylate	6259-76-3	0.1-<1%	Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1;H316-H317-H410
p-Mentha-1,4-diene	99-85-4	0.1-<1%	Flam. Liq. 3-Acute Tox. 5-Repr. 2-Asp. Tox 1-Aquatic Acute 2-Aquatic Chronic

			2;H226-H303-H304-H361- H411
dl-Citronellol	106-22-9	0.1-<1%	Acute Tox. 5-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2;H303-H313-H315-H317-H319-H401
Amyl salicylate	2050-08-0	0.1-<1%	Acute Tox. 4-Aquatic Acute 1-Aquatic Chronic 1;H302- H410
1-Methyl-4-(4-methyl-3-pentenyl) cyclohex-3-ene-1-carbaldehyde	52475-86-2	0.1-<1%	Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1; H317-H410
Acetyl cedrene	32388-55-9	0.1-<1%	Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1;H303-H317-H410
Butylated hydroxytoluene	128-37-0	0.1-<1%	Aquatic Acute 1-Aquatic Chronic 1;H410
Coumarin	91-64-5	0.1-<1%	Acute Tox. 4-Skin Sens. 1B-Aquatic Acute 3;H302-H317-H402
Methyl atrarate	4707-47-5	0.1-<1%	Skin Sens. 1B-Aquatic Acute 2;H317-H401

Substances with workplace exposure limits, not listed above:

Not Applicable

4. FIRST AID MEASURES

Description of first aid measures

Inhalation:

Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

Eye exposure:

Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

Skin exposure:

IF ON SKIN: Wash with plenty of soap and water.

Ingestion:

Rinse mouth with water and obtain medical attention.

Most important symptoms and effects, both acute and delayed

Causes skin irritation.

May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

5. FIRE FIGHTING MEASURES

Extinguishing media Suitable media:

Carbon dioxide, Dry chemical, Foam.

Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

Environmental precautions:

Keep away from drains, surface and ground water, and soil.

Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

Reference to other sections:

Also refer to sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Specific end use(s):

Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Workplace exposure limits: Not Applicable

Exposure Controls

Eye / Skin Protection

Wear protective gloves/eye protection/face protection

Respiratory Protection

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel:

- a) Increase ventilation of the area with local exhaust ventilation.
- b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters.
- c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Free flowing liquid without sediment
Odour:	Characteristic
Odour threshold:	Not determined
pH:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	Not determined
Flash point:	> 93 °C

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Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Upper/lower flammability or explosive limits:	Product does not present an explosion hazard
Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	0.9210 - 0.9510
Solubility(ies):	Not determined
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Not expected
Oxidising properties:	Not expected

Other information:

Flash Point (Fahrenheit):	> 200 °F
Refractive Index @ 20C:	1.4627 - 1.4727
Color Range:	3 Very Pale Yellow - 1 Very Pale Yellow
Calculated VOC:	6.97

10. STABILITY AND REACTIVITY

Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

Chemical stability:

Good stability under normal storage conditions.

Possibility of hazardous reactions:

Not expected under normal conditions of use.

Conditions to avoid:

Avoid extreme heat.

Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

Hazardous decomposition products:

Not expected.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in UN GHS.

Acute Toxicity: Based on available data the classification criteria are not met.

Acute Toxicity Oral >5000

Acute Toxicity Dermal Not Applicable

Acute Toxicity Inhalation Not Available

Skin corrosion/irritation: Skin Corrosion / Irritation Category 2

Serious eye damage/irritation: Based on available data the classification criteria are not met.

Respiratory or skin sensitisation: Sensitization - Skin Category 1

Germ cell mutagenicity: Based on available data the classification criteria are not met.

Carcinogenicity: Based on available data the classification criteria are not met.

Reproductive toxicity: Based on available data the classification criteria are not met.

STOT-single exposure: Based on available data the classification criteria are not met.

STOT-repeated exposure: Based on available data the classification criteria are not met.

Aspiration hazard: Based on available data the classification criteria are not met.

Information about hazardous ingredients in the mixture

Ingredient	CAS	LD50/AT E Oral (mg/kg)	LD50/ATE Dermal (mg/kg)	LC50/ATE Inhalation	LC50 Route
2,4-Dimethyl-4,4a,5,9b-tetrahydroindeno [1,2-d] -1,3-dioxin	27606-09-3	500	Not available	Not available	Not available
Linalool	78-70-6	2790	Not available	Not available	Not available
alphaHexylcinnamaldehyde	101-86-0	3100	Not available	Not available	Not available

Refer to Sections 2 and 3 for additional information.

12. ECOLOGICAL INFORMATION

Toxicity:

Toxic to aquatic life with long lasting effects.

Persistence and degradability: Not available

Bioaccumulative potential: Not available

Mobility in soil: Not available

Other adverse effects: Not available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

	UN number:	UN Proper Shipping Name:	Transport hazard class (es):	Sub Risk:	Packing Group:
UN Model Regulations	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthaleny)ethanone, Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene)	9	-	III
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthaleny)ethanone, Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene) MARINE POLLUTANT	9	-	III
ADR,RID,ADN	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-	9	-	III

		(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthaleny l)ethanone, Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene)			
ICAO TI	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthaleny l)ethanone, Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene)	9	-	III

Environmental hazards:

This is classified as an environmentally hazardous substance under the UN Model Regulations. This is classified as a Marine Pollutant under the IMDG Code.

Special precautions for user:

None additional

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable

15. REGULATORY INFORMATION

Essential Oil Components:

Name	CAS	%
Patchouli oil	84238-39-1, 8014-09-3	0.1-<1%
Calamus oil	84775-39-3, 8015-79-0	<0.1%
Gurjun balsam oil	8030-55-5	<0.1%
Copaiba oil	8001-61-4, 8013-97-6, 9000-12-8	<0.1%
Cedarwood oil, Texas	91722-61-1, 68990-83-0	<0.1%
Vetiver oil	84238-29-9, 8016-96-4	<0.1%

Components listed on California's SB312

Name	CAS	%
Di-(2-ethylhexyl) adipate	103-23-1	50-100%
alpha-Hexylcinnamaldehyde	101-86-0	5-<10%
d-Limonene	5989-27-5	1-<5%
Linalool	78-70-6	1-<5%
Coumarin	91-64-5	0.1-<1%
Citral	5392-40-5	<0.1%
Geraniol	106-24-1	<0.1%

Additional formulation properties

Name	CAS	%
Vanillin	121-33-5	<0.1%

16. OTHER INFORMATION

Concentration % Limits:

SCI 2=67.84% SCI 3=5.53% SS 1=11.16% EH A2=15.34% EH A3=1.53% EH C2=18.34% EH C3=1.83% EH C4=92.63%

Total Fractional Values:

SCI 2=1.47 SCI 3=18.10 SS 1=8.96 EH A2=6.52 EH A3=65.33 EH C2=5.45 EH C3=54.62 EH C4=1.08

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