

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

SANDALWOOD RICH FRAGRANCE OIL

1. Identification of the substance/mixture and company

Trade name:	Sandalwood Rich Fragrance Oil
INCI	Parfum
General use:	Raw material for perfumes, fragrances, formulation of personal care and fragranced products
Supplier company identification:	Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.ellemental.com
Emergency:	RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

Skin Sens. 1; H317 May cause an allergic skin reaction

Signal word Warning

Nature of Hazard GHS07 Exclamation mark

Hazard statements H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Safety precautions P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to hazardous waste.

Hazard components for labelling

Cinnamyl alcohol

1,3,4,6,7,8a-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalen-8(5H)-one

4-tert-butylcyclohexyl acetate

Special provisions concerning the labelling of certain mixtures



2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain any ingredients with endocrine disrupting properties that are listed under REACH Article 57(f) (or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605) at levels of 0.1% or more.

3. Declaration of ingredients

3.1 Substances

Not applicable

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3.2 Mixtures

Hazardous ingredients

4-tert-butylcyclohexylacetat: 3 % - 9,99 %

CAS-Nummer: 32210-23-4

EINECS / ELINCS / NLP: 250-954-9

REACH-Registrierungsnr.: 01-2119976286-24

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Skin Sens. 1B; H317

1,3,4,6,7,8a-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalen-8(5H)-one: 1 % - 2,49 %

CAS-Nummer: 23787-90-8

EINECS / ELINCS / NLP: 245-890-3

REACH-Registrierungsnr.: 01-2120136162-69

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Aquatic Chronic 2; H411 / Skin Sens. 1B; H317

Methylionon: 1 % - 2,49 %

CAS-Nummer: 1335-46-2

EINECS / ELINCS / NLP: 215-635-0

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Aquatic Chronic 2; H411 / Eye Irrit. 2; H319 / Skin Irrit. 2; H315

Cinnamylalkohol: 1 % - 2,49 %

CAS-Nummer: 104-54-1

EINECS / ELINCS / NLP: 203-212-3

REACH-Registrierungsnr.: 01-2119934496-29

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Acute Tox. 4; H302 / Skin Sens. 1B; H317

3-METHYL-5-(2,2,3-TRIMETHYL-3-CYCLOPENTEN-1-YL)-4-PENTEN-2-OL: 1 % - 2,49 %

CAS-Nummer: 67801-20-1

EINECS / ELINCS / NLP: 267-140-4

REACH-Registrierungsnr.: 01-2119940039-39

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Aquatic Chronic 2; H411

Cyclopropanemethanol, 1-methyl-2-[(1,2,2-trimethylbicyclo[3.1.0]hex-3-yl)methyl]-: 0,1 % - 0,99 %

CAS-Nummer: 198404-98-7

EINECS / ELINCS / NLP: 427-900-1

REACH-Registrierungsnr.: 01-0000017424-73

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Aquatic Acute 1 (M1); H400 / Aquatic Chronic 1 (M1); H410

alpha-Cedrene: 0,01 % - 0,09 %

CAS-Nummer: 469-61-4

EINECS / ELINCS / NLP: 207-418-4

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Aquatic Acute 1 (M10); H400 / Aquatic Chronic 1 (M10); H410 / Asp. Tox. 1; H304 / Skin Irrit. 2; H315

4. First aid measures

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4.1 Description of first aid measures

General information Remove affected person from the danger area and lay down. Do not leave affected person unattended. Show this safety data sheet to the doctor in attendance.

In case of inhalation If unconscious but breathing normally, place in recovery position and seek medical advice. Seek medical aid in case of troubles.

In case of skin contact Thoroughly clean the contaminated area with water.

After eye contact Remove contact lenses, if any. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing Keep airway open. Never give anything by mouth to an unconscious person. Seek medical treatment in case of troubles.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No data available

4.3 Indication of any immediate medical attention and special treatment needed

Information to physician No data available

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media dry extinguishing powder, Alcohol resistant foam , carbon dioxide , water mist
Extinguishing media which must Full water jet not be used for safety reasons.

5.2 Special hazards arising from the substance or mixture

Possible combustion products May form dangerous gases and vapours in case of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Do not allow water used to extinguish fire to enter drains, ground or waterways.

Dispose of contaminated extinguishing water according to the regulations of the authorities.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid direct eye contact

Wear protective clothing.

Particular danger of slipping on leaked/spilled product.

6.2 environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. If necessary notify appropriate authorities.

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and

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place in closed containers for disposal.

6.4 Reference to other sections

Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

7. Handling and storage

7.1 Precautions for safe handling

Advices on safe handling Avoid exposure - obtain special instructions before use. Do not breathe vapours. Avoid contact with skin, eyes, and clothing. When using do not eat, drink, smoke. Ensure all waste water is collected and treated via a waste water treatment plant. Personal protection equipment: see section 8

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms Keep container tightly closed in a cool, well-ventilated place. Protect from and containers light. Storage class 10

7.3 Specific end use(s)

General use Perfumes, fragrances, Formulation of fragranced personal care products

8. Exposure controls / personal protection

8.1 Control parameters

8.2 Exposure controls

Respiratory protection Avoid exceeding WEL threshold levels. Respiratory protection must be worn whenever the WEL levels have been exceeded. Provide good ventilation and/or an exhaust system in the work area.

Hand protection breakthrough time Short-term, accidental skin contact: Breakthrough time 10 min

In case of prolonged or frequently repeated skin contact: If direct skin contact with the chemical is expected during work, then gloves conforming to EN 16523-1/ASTM F739 (or equivalent local standard) with a breakthrough time at least equal to the contact time must be worn. Breakthrough time: Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection Use safety glasses conforming to EN 166/ANSI Z87.1 or equivalent local standards.

Body protection Wear suitable protective clothing. When handling larger quantities: face protection, rubber boots and rubber apron.

General protection and hygiene measures: Avoid contact with skin, eyes, and clothing. After work, wash hands and face. When using do not eat, drink or smoke. Wash contaminated clothing prior to re-use.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form liquid

Colour colourless to yellowish

Odour characteristic

Melting point/freezing point - not available

Initial boiling point and boiling range - not available

Flammability

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Explosion limits - not available
Flash point/flash point range > 102 °C
Ignition temperature - not available
pH - not relevant
Viscosity - not available
Solubility - not available
Partition coefficient - not available
Vapour pressure ber. 0.0491 hPa
Density 0.883 g/cm³
Relative vapour density - not available
Bulk density - not available

9.2 Other information

NA

10. Stability and reactivity

10.1 Reactivity

No reactivity hazards known

10.2 Chemical stability

The substance/mixture is stable if stored and handled as recommended

10.3 Possibility of hazardous reactions

Strong oxidizing agents. No other hazardous reactions known if stored and handled as recommended.

10.4 Conditions to avoid

None known if stored and handled as recommended

10.5 Incompatible materials

None known

10.6 Hazardous products decomposition

No hazardous decomposition products known if stored and handled as recommended

11. Toxicological information

11.1 Information on toxicological effects

General remarks

No data available

Toxicological tests: components

4-tert-butylcyclohexyl acetate

oral LD50 5000.0 mg/kg -

Rat

dermal LD50 5000.0 mg/kg -

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Rabbit

Toxicological tests: components

1,3,4,6,7,8a-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalen-8(5H)-one

dermal LD50 5000.0 mg/kg -

Rabbit

Toxicological tests: components

Cinnamyl alcohol

oral LD50 2000.0 mg/kg -

Rat

Toxicological tests: components

3-METHYL-5-(2,2,3-TRIMETHYL-3-CYCLOPENTEN-1-YL)-4-PENTEN-2-OL

oral LD50 5000.0 mg/kg -

Rat

Toxicological tests: components

alpha-Cedrene

oral LD50 5000.0 mg/kg -

Rat

dermal LD50 5000.0 mg/kg -

11.2 Information on other hazards

Endocrine disrupting properties The substance/mixture does not contain any ingredients with endocrine disrupting properties that are listed under REACH Article 57(f) (or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605) at levels of 0.1% or more.

Further details No data available

12. Ecological information

12.1 Toxicity

Aquatic toxicity Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Evaluation text No data available

Degree of elimination No data available

Analytical method No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain any ingredients with endocrine disrupting properties that are listed under REACH Article 57(f) (or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605) at levels of 0.1% or more.

12.7 Other adverse effects

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An environmental hazard cannot be ruled out in the event of improper handling or disposal. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

13.1 Waste treatment methods

Product

Recommendation Discharge into the environment must be avoided. Dispose of waste according to applicable legislation.

Package

Recommendation Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

14. Transport information

14.1 UN number

ADR, IATA, IMDG UNnot regulated

14.2 UN proper shipping name

Product designation: ADR/RID No dangerous good in sense of these transport regulations.

Proper shipping name: IATA-DGR ---

Proper shipping name: IMDG ---

14.3 Transport hazard class(es)

Class ADR/RID ---

Classification code ---

ADR/RID

Class IATA-DGR ---

Subrisk IATA-DGR ---

Class IMDG ---

Subrisk IMDG ---

14.4 Packing group

ADR, IATA, IMDG ---

14.5 Environmental hazards

Marine Pollutant - IMDG ---

EmS ---

Stowage and segregation ---

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

Additional information

EQ ---

Limited quantities ---

Special Provisions ---

Tunnel restriction ---

Transport category ---

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Kemmler-number ---

No dangerous good in sense of these transport regulations

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Europe

Germany

Storage class 10

Water Hazard Class 2 deutlich wassergefährdend

Major Accident Ordinance (12. E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

BImSchV)

Information on working limitations Observe employment restrictions for young people.

15.2 Chemical Safety Assessment

Chemical Safety Assessment ---

16. Additional information

Hazard statements (CLP)

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen-cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; INCI: International Nomenclature of Cosmetic Ingredients; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -

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Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; PNEC: Predicted No Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

DECLARATION OF ALLERGENS

Fragrance ingredients restricted as potential allergens in fragrance oil according to EU provision 1223/2009

Component name	CAS No.	Total max %
Benzyl alcohol	100-51-6	-
Amylcinnamyl alcohol	101-85-9	-
Hexyl cinnamal	101-86-0	-
Benzyl cinnamate	103-41-3	-
Cinnamyl alcohol	104-54-1	1,526
Cinnamal	104-55-2	0,009
Anise alcohol	105-13-5	-
Citronellol	106-22-9	-
Geraniol	106-24-1	-
Hydroxycitronellal	107-75-5	-
Methyl 2-octynoate	111-12-6	-
Benzyl salicylate	118-58-1	-
Benzyl benzoate	120-51-4	-
Amyl cinnamal	122-40-7	-
Alpha-isomethyl ionone	127-51-5	1,263

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Hydroxyisohexyl 3-cyclohexene carboxaldehyde	31906-04-4	-
Farnesol	4602-84-0	-
Citral	5392-40-5	-
D-limonene	5989-27-5	-
Linalool	78-70-6	-
Butylphenyl methylpropional	80-54-6	-
Evernia furfuracea (treemoss) extract	90028-67-4	-
Evernia prunastri (oakmoss) extract	90028-68-5	-
Coumarin	91-64-5	-
Eugenol	97-53-0	-
Isoeugenol	97-54-1	-

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.