

Material Safety Data Sheet

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

VERBENA ZEST FRAGRANCE OIL

1. Identification of the substance/mixture and company

Trade name:	Verbena Zest 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 2; H411 Toxic to aquatic life with long lasting effects.

Eye Irrit. 2; H319 Causes serious eye irritation.

Skin Irrit. 2; H315 Causes skin irritation.

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

2.2 Label elements

Signal word Warning

Nature of Hazard

GHS07 Exclamation mark

GHS09 Environment

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Safety precautions P264 Wash affected areas thoroughly after handling.

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

P321 Specific treatment (see instructions on this label).

P362 Take off contaminated clothing.

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container to hazardous waste.

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

P273 Avoid release to the environment.



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P391 Collect spillage.

Hazard components for labelling

(2E)-2-(phenylmethylidene)octanal(101-86-0);

3,7-Dimethyl-1,6-nonadien-3-ol(10339-55-6); Geraniol(106-24-1); Nerol(106-25-2);

Linalyl acetate(115-95-7); Citral(5392-40-5);

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one(54464-57-2);

(R)-p-Mentha-1,8-diene(5989-27-5);

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde(68039-49-6); citrus limonum oil (Citrus

limonum)(8008-56-8); Terpenes and Terpenoids, lemon-oil(68917-33-9

84929-31)

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

3.2 Mixtures

Hazardous ingredients

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one: 10 % - 24,99 %

CAS-Number: 54464-57-2

EC-number: 259-174-3

REACH registration No.: 01-2119489989-04

Classification according to EC regulation 1272/2008 (CLP):

Aquatic Chronic 1; H410 (M = 1) / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

(R)-p-Mentha-1,8-diene: 3 % - 9,99 %

CAS-Number: 5989-27-5

EU index number: 601-096-00-2

EC-number: 227-813-5

REACH registration No.: 01-2119529223-47

Classification according to EC regulation 1272/2008 (CLP):

Aquatic Acute 1; H400 (M = 1) / Aquatic Chronic 3; H412 / Asp. Tox. 1; H304 / Flam. Liq. 3; H226 /

Skin Irrit. 2; H315 / Skin Sens. 1B; H317

3,7-Dimethyl-1,6-nonadien-3-ol: 3 % - 9,99 %

CAS-Number: 10339-55-6

EC-number: 233-732-6

REACH registration No.: 01-2119969272-32-xxxx

Classification according to EC regulation 1272/2008 (CLP):

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Eye Irrit. 2; H319 / Skin Sens. 1B; H317
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans): 3 % - 9,99 %
CAS-Number: 63500-71-0
EU index number: 603-101-00-3
EC-number: 405-040-6
REACH registration No.: 01-0000015458-64
Classification according to EC regulation 1272/2008 (CLP):
Eye Irrit. 2; H319
2,6-dimethyloct-7-en-2-ol: 3 % - 9,99 %
CAS-Number: 18479-58-8
EC-number: 242-362-4
REACH registration No.: 01-2119457274-37
Classification according to EC regulation 1272/2008 (CLP):
Eye Irrit. 2; H319 / STOT SE 3; H336 / Skin Irrit. 2; H315
Citral: 3 % - 9,99 %
CAS-Number: 5392-40-5
EU index number: 605-019-00-3
EC-number: 226-394-6
REACH registration No.: 01-2119462829-23
Classification according to EC regulation 1272/2008 (CLP):
Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1; H317
(2E)-2-(phenylmethylidene)octanal: 2,5 % - 2,99 %
CAS-Number: 165184-98-5
EC-number: 639-566-4
REACH registration No.: 01-2119533092-50
Classification according to EC regulation 1272/2008 (CLP):
Aquatic Acute 1; H400 (M = 1) / Aquatic Chronic 2; H411 / Skin Sens. 1; H317
Geraniol: 2,5 % - 2,99 %
CAS-Number: 106-24-1
EU index number: 603-241-00-5
EC-number: 203-377-1
REACH registration No.: 01-2119552430-49
Classification according to EC regulation 1272/2008 (CLP):
Eye Dam. 1; H318 / Skin Irrit. 2; H315 / Skin Sens. 1; H317
Nerol: 2,5 % - 2,99 %
CAS-Number: 106-25-2
EC-number: 203-378-7
REACH registration No.: 01-2119983244-33
Classification according to EC regulation 1272/2008 (CLP):
Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317
Terpenes and Terpenoids, lemon-oil: 1 % - 2,49 %
CAS-Number: 68917-33-9
84929-31-7
EC-number: 84929-31-7

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REACH registration No.: 01-2119495512-35

Classification according to EC regulation 1272/2008 (CLP):

Aquatic Chronic 2; H411 / Asp. Tox. 1; H304 / Flam. Liq. 3; H226 / Skin Irrit. 2; H315 / Skin Sens. 1; H317

citrus limonum oil (Citrus limonum): 1 % - 2,49 %

CAS-Number: 8008-56-8

EC-number: 616-925-3

REACH registration No.: 01-2119495512-35

Classification according to EC regulation 1272/2008 (CLP):

Aquatic Chronic 2; H411 / Asp. Tox. 1; H304 / Flam. Liq. 3; H226 / Skin Irrit. 2; H315 / Skin Sens. 1; H317

Linalyl acetate: 0,1 % - 0,99 %

CAS-Number: 115-95-7

EC-number: 204-116-4

REACH registration No.: 01-2119454789-19

Classification according to EC regulation 1272/2008 (CLP):

Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

7-Methyl-3-methyleneocta-1,6-diene: 0,1 % - 0,99 %

CAS-Number: 123-35-3

EC-number: 204-622-5

REACH registration No.: 01-2119514321-56

Classification according to EC regulation 1272/2008 (CLP):

Aquatic Acute 1; H400 (M = 1) / Aquatic Chronic 2; H411 / Asp. Tox. 1; H304 / Eye Irrit. 2; H319 / Flam. Liq. 3; H226 / Skin Irrit. 2; H315

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde: 0,1 % - 0,99 %

CAS-Number: 68039-49-6

EC-number: 268-264-1

Classification according to EC regulation 1272/2008 (CLP):

Aquatic Chronic 2; H411 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

4. First aid measures

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

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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 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

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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

8.2 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

Explosion limits - not available

Flash point/flash point range 71 °C

Ignition temperature - not available

pH - not relevant

Viscosity - not available

Solubility - not available

Partition coefficient - not available

Vapour pressure bar. 0,191 hPa

Density 0,952 g/cm³

Relative vapour density - not available

Bulk density - not available

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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 effects on toxicological

General remarks

No data available

Toxicological tests: components

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

oral LD50 5000.0 mg/kg -

Rat

dermal LD50 5000.0 mg/kg -

Rabbit

Toxicological tests: components

(R)-p-Mentha-1,8-diene

oral LD50 5600.0 mg/kg -

Mouse

dermal LD50 5000.0 mg/kg -

Rabbit

Toxicological tests: components

3,7-Dimethyl-1,6-nonadien-3-ol

oral LD50 5000.0 mg/kg -

Rat

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dermal LD50 5000.0 mg/kg -

Rabbit

Toxicological tests: components

Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)

oral LD50 5000.0 mg/kg -

Rat

Toxicological tests: components

2,6-dimethyloct-7-en-2-ol

oral LD50 3600.0 mg/kg -

Rat

Toxicological tests: components

Citral

oral LD50 4950.0 mg/kg -

Rat

dermal LD50 2250.0 mg/kg -

Rabbit

Toxicological tests: components

(2E)-2-(phenylmethylidene)octanal

oral LD50 3100.0 mg/kg -

Rat

Toxicological tests: components

Geraniol

oral LD50 3600.0 mg/kg -

Rat

dermal LD50 5000.0 mg/kg -

Rabbit

Toxicological tests: components

Nerol

oral LD50 4500.0 mg/kg -

Rat

Toxicological tests: components

citrus limonum oil (Citrus limonum)

dermal LD50 5000.0 mg/kg -

Rabbit

Toxicological tests: components

Linalyl acetate

oral LD50 13934.0 mg/kg -

Rat

dermal LD50 5000.0 mg/kg -

Rabbit

Toxicological tests: components

7-Methyl-3-methylenoocta-1,6-diene

oral LD50 5000.0 mg/kg -

Rat

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dermal LD50 5000.0 mg/kg -

Rabbit

Toxicological tests: components

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde

oral LD50 3100.0 mg/kg -

Rat

dermal LD50 5000.0 mg/kg -

Rabbit

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 Toxic 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

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

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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 UN3082

14.2 UN proper shipping name

Product designation: ADR/RID Environmentally hazardous substance, liquid n.o.s.

Proper shipping name: IATA-DGR Environmentally hazardous substance, liquid, n.o.s. (EXTRAKTS, LIQUID)

Proper shipping name: IMDG Environmentally hazardous substance, liquid, n.o.s. (EXTRAKTS, LIQUID)

14.3 Transport hazard class(es)

Class ADR/RID 9

Classification code M6

ADR/RID

Class IATA-DGR 9

Subrisk IATA-DGR ---

Class IMDG 9

Subrisk IMDG ---

14.4 Packing group

ADR, IATA, IMDG III

14.5 Environmental hazards

Marine Pollutant - IMDG MARINE POLLUTANT

EmS F-A, S-F

Stowage and segregation Stowage Category A

14.6 Special precautions for user ---

14.7 Maritime transport in bulk according to IMO instruments ---

Additional information

EQ E1

Limited quantities 5L

Special Provisions ADR: 274, 335, 375, 601

IMDG: 274, 335, 969

IATA: A97, A158, A197

Tunnel restriction (-)

Transport category 3

Kemmler-number 90 ---

15. Regulatory information

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

National regulations

Europe ---

Germany

Storage class 10

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Water Hazard Class 2 deutlich wassergefährdend

Major Accident Ordinance (12. E2 Hazardous to the Aquatic Environment in Category Chronic 2 BlmSchV)

Information on working limitations Observe employment restrictions for young people.

15.2 Chemical Safety Assessment

Chemical Safety Assessment ---

16. Additional information

Hazard statements (CLP)

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.

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.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

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 - Lethal Concentration to 50 % of a test popula-tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - Interna-tional 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) Ef-fect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-tative) 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,

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Authorisation and Re-striction 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; TECI - 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	2,993
Benzyl cinnamate	103-41-3	-
Cinnamyl alcohol	104-54-1	-
Cinnamal	104-55-2	-
Anise alcohol	105-13-5	-
Citronellol	106-22-9	0,009
Geraniol	106-24-1	2,989
Hydroxycitronellal	107-75-5	-
Methyl 2-octynoate	111-12-6	-
Benzyl salicylate	118-58-1	-
Benzyl benzoate	120-51-4	0,003
Amyl cinnamal	122-40-7	0,001
Alpha-isomethyl ionone	127-51-5	-
Hydroxyisohexyl 3-cyclohexene carboxaldehyde	31906-04-4	-
Farnesol	4602-84-0	-
Citral	5392-40-5	2,027
D-limonene	5989-27-5	9,789
Linalool	78-70-6	1,027

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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.