

MATERIAL SAFETY DATA SHEET

According to EU Regulation 1907/2006 in the current version

Organic Pure Green Mandarin Essential Oil

1. Identification of the substance/mixture and company

Trade name: Green Mandarin Organic Essential Oil

Expression of the fresh pericarp of the fruit, 100% pure and natural

INCI Citrus reticulata peel oil CAS No. : 8008-31-9 / 84929-38-4

EINESCS No.: 284-521-0

Utilization: Raw material for cosmetic or professional use

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

GHS Classification: (Regulation CLP)

AH1 Aspiration hazard 1

EHA1 Hazardous to the aquatic environment, acute hazard 1 EHC1 Hazardous to the aquatic environment, long-term hazard 1

FL3 Flammable Liquids 3

SCI2 Skin corrosion / irritation 2

SS1 Sensitization skin 1

H226 - Flammable liquid and vapor.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects

2.2. Label elements

GHS Classification: (Regulation CLP)

Warning mention : Danger AH1 Aspiration hazard 1

EHA1 Hazardous to the aquatic environment, acute hazard 1 EHC1 Hazardous to the aquatic environment, long-term hazard 1

FL3 Flammable Liquids 3

SCI2 Skin corrosion / irritation 2

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According to EU Regulation 1907/2006 in the current version

Organic Pure Green Mandarin Essential Oil

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

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.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/

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

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

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

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container according to applicable legislation.









2.3. Other hazards

Contains d-Limonene, p-Mentha-1,4-diene, alpha-Pinene, Myrcene, beta-Pinene.

3. Declaration of ingredients

3.1. Substances

Material	CAS	EINECS	Risk Symbol	%
d-Limonene	5989-27-5	227-813-5	AH1, EHA1, EHC1, FL3, SCI2, SS1B - H226, H304, H315, H317, H400, H410	80.00
p-Mentha-1,4-diene	99-85-4	202-794-6	AH1, FL3 - H226, H304	25.00
alpha-Pinene	80-56-8	201-291-9	AH1, EHA1, EHC1, FL3, SCI2, SS1B - H226, H304, H315, H317, H400, H410	4.00
Myrcene	123-35-3	204-622-5	AH1, EDI2, FL3, SCI2 - H226, H304, H315, H319	3.00
beta-Pinene	127-91-3	204-872-5	AH1, EHA1, EHC1, FL3, SCI2, SS1B - H226, H304, H315, H317, H400, H410	3.00

3.2. Mixtures

Not concerned.



MATERIAL SAFETY DATA SHEET

According to EU Regulation 1907/2006 in the current version

Organic Pure Green Mandarin Essential Oil

4. First aid measures

Contact with skin: Wash immediately and abundantly with water and soap. Rinse then with clean water. Contact with eyes: Abundant rinsing with water (15 minutes open eyelids) then washing with an ocular lotion standard Dacryoserum. In case of disorder, consult an ophthalmologist.

If swallowed: Not make vomit, maintain the patient at rest. Resort to the medical care.

In the event of excessive inhalation: Move the victim to fresh air. Get medical advice immediately.

Soiled clothing: Withdraw soiled clothing and re-use them only after decontamination.

5. Fire fighting measures

5.1. Extinguishing media

Recommended: foam, dry powder, carbon dioxide (CO2)

Inadvisable: avoid full water jet

5.2. Special hazards arising from the substance or mixture Flammability: The product is not easily flammable. Prevention: Do not smoke. Do not use near flame.

5.3. Advice for firefighters

Never use a direct stream of water.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Use appropriate personal protective equipment during clean-up.

6.2. Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4. Reference to other sections

Not concerned

7. Handling and storage

7.1. Precautions for safe handling

Close packing after use. Reproduce labeling if transferred in another container.



MATERIAL SAFETY DATA SHEET

According to EU Regulation 1907/2006 in the current version

Organic Pure Green Mandarin Essential Oil

7.2. Conditions for safe storage, including any incompatibilities

- -Avoid any useless exposure. Keep away from food and drinks.
- -Preserve only in the container of origin in a clean and dry place. Keep the containers closed when not in use.
- -Do not leave it near heat source, direct rays of the sun.

7.3. Specific end use(s)

Wash the hands and any other area exposed with soap and water before eating, drinking, smoking and before leaving work.

8. Exposure controls / personal protection

8.1. Control parameters

Not concerned

8.2. Exposure controls

General protective and hygienic measures: Avoid skin and eyes contact. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Personal Protection:

- Hand protection: Wear gloves.
- Eye protection: Protection not required but recommended.
- Respiratory protection : Wear a mask.
- -Ingestion: Do not use, drink and smoke during use.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Odor : Characteristic Color : Green Texture : Liquid

Flash point (°C): [+45; +55]

Refractive index at 20° C: [1.470; 1.480] Relative density at 20° C: [0.840; 0.860] Angular rotation at 20° C (°): [+55; +80]

10. Stability and reactivity

10.1. Reactivity Not concerned

10.2. Chemical stability



MATERIAL SAFETY DATA SHEET

According to EU Regulation 1907/2006 in the current version Organic Pure Green Mandarin Essential Oil

Not concerned

10.3. Possibility of hazardous reactions Not concerned

10.4. Conditions to avoid Not concerned

10.5. Incompatible materials Not concerned

10.6. Hazardous decomposition products

Thermal decomposition / conditions to be avoided: Avoid contact with any flame or spark, flame, overheating. Avoid direct rays of the sun. No decomposition if used according to specifications.

Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

11.1 Information on toxicological effects No data available.

12. Ecological information

12.1. Toxicity

Do not leave the product, even diluted or in great quantity, penetrate the ground water, water or the drains.

12.2. Persistence and degradability Not concerned

12.3. Bioaccumulative potential Not concerned

12.4. Mobility in soil Not concerned

12.5. Results of PBT and vPvB assessment Not concerned

12.6. Other adverse effects Not concerned

13. Disposal considerations



MATERIAL SAFETY DATA SHEET

According to EU Regulation 1907/2006 in the current version

Organic Pure Green Mandarin Essential Oil

13.1. Waste treatment methods

Product recommendation: Do not dispose with waste. Do not let penetrate in sewers. Used packing recommendation: Disposal in accordance with regulations.

14. Transport information



14.1. UN number

ADR: 1169 (Tunnel code(D/E))

IMDG:1169 IATA:1169

14.2. UN proper shipping name ADR: EXTRACTS, AROMATIC, LIQUID IMDG: EXTRACTS, AROMATIC, LIQUID IATA: EXTRACTS, AROMATIC, LIQUID

14.3. Transport hazard class(es)

ADR: 3 IMDG:3 IATA:3

14.4. Packing group

ADR : III IMDG:III IATA :III

14.5. Environmental hazards IMDG : Marine Pollutant

Marine pollutant(s): d-Limonene, Alpha-pinene

14.6. Special precautions for user

Not concerned

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not concerned



Version: 10.2024 MATERIAL SAFETY DATA SHEET

According to EU Regulation 1907/2006 in the current version

Organic Pure Green Mandarin Essential Oil

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Not applicable.

15.2. Chemical safety assessment Not applicable.

16. Additional information

16.1 Full H statements text in point 3:

H226 Flammable liquid and vapor.

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.

16.2 Abbreviations:

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 Cooperation 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, Authorisation and



MATERIAL SAFETY DATA SHEET

According to EU Regulation 1907/2006 in the current version Organic Pure Green Mandarin Essential Oil

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 COSMETIC ALLERGENS

Composants	INCI EU	CAS	Max %
Amyl Salicylate		2050-08-0	-
Anethol		106-46-1 4180-23-8	-
Alpha-Pinene		80-56-8 7785-70-8	4,000
Beta-Pinene		127-91-3 18172-67-3	3,000
Camphor	CAMPHOR	76-22-2 21368-68-3 464-49-3 464-48-2	0,0500
Carvone		99-49-0 6485-40-1 2244-16-8	-
Cinnamomum Cassia Leaf Oil	CINNAMOMUM CASSIA LEAF OIL	8007-80-5 84961-46-6	-
Limon Oil Cold Pressed	CITRUS LIMON PEEL OIL	84929-31-1 8008-56-8	-
Citronellol	CITRONELLOL	106-22-9 26489-01-0 1117-61-9 7540-51-4	0,1000
Geranium Oil	Pelargonium Graveolens Oil	8000-46-2	-
Isoeugenol		97-54-1 5932-68-3	-
Laurel Leaf Oil/Extract	LAURUS NOBILIS OIL	8002-41-3 8007-48-5 84603-73-6	-



MATERIAL SAFETY DATA SHEET

According to EU Regulation 1907/2006 in the current version **Organic Pure Green Mandarin Essential Oil**

Limonene		138-86-3 5989-27-5 7705-14-8 5989-54-8	80,0000
Linalool		78-70-6	0,5000
Menthol	Menthol	89-78-1 2216-51-5	-
Patchouli Oil	Pogostemon Cablin Oil	8014-09-3 84238-39-1	
Peppermint Oil	MENTHA PIPERITA OIL	8006-90-4 84082-70-2	-
Alpha-Santalol		11031-45-1 115-71-9	-
Spearmint Oil	MENTHA VIRIDIS LEAF OIL	8008-79-5 84696-51-5	-
Turpentine Oil	TURPENTINE	9005-64-2 8006-64-2 8052-14-0	-
Alpha-Terpineol		8000-41-7 98-55-5	1,000
Tetramethylacetyloctahydronaphtalenes		54464-57-2 54464-59-4 68155-66-8 68155-67-9	-
Verbena Absolute	Lippia Citrodora Leaf Extract Lippia Sidoides Leaf Oil	8024-12-2 85116-63-8	-
Citrus Aurantium Bergamia Peel Oil	Citrus Aurantium Bergamia Fruit Oil Citrus Bergamia Peel Oil Expressed	8007-75-8 89957-91-5 68648-33-9 85049-52-1	-
Cananga Odorata Oil/Extract	CANANGA ODORATA OIL/EXTRACT	83863-30-3 8006-81-3 68606-83-7 93686-30-7	-
Cinnamon Bark Oil	CINNAMOMUM ZEYLANICUM BARK OIL	8015-91-6 84649-98-9	-
Cedrus Atlantica Oil/Extract	CEDRUS ATLANTICA OIL/ EXTRACT	92201-55-3 8023-85-6	-
Citral	CITRAL	5392-40-5 141-27-5 106-26-3	0,2000



MATERIAL SAFETY DATA SHEET

According to EU Regulation 1907/2006 in the current version **Organic Pure Green Mandarin Essential Oil**

Citrus Aurantium Peel Oil	CITRUS AURANTIUM AMARA PEEL OIL	68916-04-1 72968-50-4 97766-30-8 8028-48-6 8008-57-9
Citrus Aurantium Flower Oil	CITRUS AURANTIUM FLOWER OIL	72968-50-4 - 8028-48-6 8016-38-4
Eucalyptus Globulus Oil	Eucalyptus Globulus Oil	97926-40-4 8000-48-4
Eugenia Caryophyllus Oil	EUGENIA CARYOPHYLLUS OIL	8000-34-8 - 8015-97-2 84961-50-2
Jasmine Oil/Extract	JASMINE OIL/EXTRACT	84776-64-7 90045-94-6 8022-96-6 8024-43-9
Juniperus Virginiana Oil	Juniperus Virginiana Oil	8000-27-9 85085-41-2
Lavandula Oil/Extract	LAVANDULA OIL/ EXTRACT	91722-69-9 8022-15-9 93455-96-0 93455-97-1 92623-76-2 84776-65-8 8000-28-0 90063-37-9
Lemongrass Oil	Lemongrass Oil	8007-02-1 - 89998-16-3 91844-92-7
Myroxylon Pereirae Oil/Extract	Myroxylon Pereirae Oil/ Extract	8007-00-9 -
Narcissus Extract	Narcissus Extract	90064-26-9 68917-12-4 90064-27-0 90064-25-8
Pinus Mugo Oil/Extract	Pinus Mugo	90082-72-7 -
Pinus Pumila Oil/Extract	Pinus Pumila	97676-05-6 -
Rose Flower Oil/Extract	Rose Flower Oil/Extract	8007-01-0 - 90106-38-0 93334-48-6 84696-47-9 84604-12-6 84604-13-7 92347-25-6



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According to EU Regulation 1907/2006 in the current version **Organic Pure Green Mandarin Essential Oil**

Rose Ketones	Rose Ketones	43052-87-5 23726-94-5 24720-09-0 23696-85-7 57378-68-4 71048-82-3 23726-92-3 23726-91-2	-
Santalum Album Oil	Santalum Album Oil	8006-87-9 84787-70-2	
Hexamethylindanopyran	Hexamethylindanopyran	1222-05-5	_
3-Methyl-5-(2,2,3-Trimethyl-3- Cyclopenten-1-Yl)Pent-4-En-2-Ol		67801-20-1	-
3-Propylidenephthalide		17369-59-4	-
6-Methylcoumarin	6-Methyl Coumarin	92-48-8	-
Acetyl Cedrene		32388-55-9	-
Alpha-Amylcinnamyl Alcohol	Amylcinnamyl Alcohol	101-85-9	-
Alpha-Amylcinnamaldehyde	Amyl Cinnamal	122-40-7	-
Alpha-Hexylcinnamaldehyde	Hexyl Cinnamal	101-86-0	-
Alpha-Iso-Methylionone	Alpha-Isomethyl Ionone	127-51-5	-
Alpha-Terpinene		99-86-5	1,0000
Anisyl Alcohol	Anise Alcohol	105-13-5	-
Benzaldehyde	Benzaldehyde	100-52-7	-
Benzyl Alcohol	Benzyl Alcohol	100-51-6	-
Benzyl Benzoate	Benzyl Benzoate	120-51-4	-
Benzyl Cinnamate	Benzyl Cinnamate	103-41-3	-
Benzyl Salicylate	Benzyl Salicylate	118-58-1	-
Beta-Caryophyllene	Beta-Caryophyllene	87-44-5	0,2000
.Beta.,.Beta.,3-Trimethyl Benzenepropanol		103694-68-4	-
Beta-Santalol		77-42-9	-
Cinnamaldehyde	Cinnamal	104-55-2	-
Cinnamyl Alcohol	Cinnamyl Alcohol	104-54-1	-
Coumarin	Coumarin	91-64-5	-
1,1-Dimethyl-2-Phenylethyl Acetate		151-05-3	-
Eugenol	Eugenol	97-53-0	-
Eugenyl Acetate	Eugenyl Acetate	93-28-7	-



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Organic Pure Green Mandarin Essential Oil

Farnesol	Farnesol	4602-84-0	-
Geraniol	Geraniol	106-24-1	0,1000
Geranyl Acetate	Geranyl Acetate	105-87-3	-
Hexadecanolide	Hexadecanolactone	109-29-5	-
Hydroxycitronellal	Hydroxycitronellal	107-75-5	-
Isoeugenyl Acetate	Isoeugenyl Acetate	93-29-8	-/
Linalyl Acetate	Linalyl Acetate	115-95-7	-
Methyl 2-Octynoate	Methyl 2-Octynoate	111-12-6	-
Methyl Salicylate	Methyl Salicylate	119-36-8	-
Oakmoss Absolute	Evernia Prunastri Extract	90028-68-5	-
Salicylaldehyde		90-02-8	-
Sclareol		515-03-7	-
Terpinolene		586-62-9	2,0000
Evernia Furfuracea (Treemoss)	Evernia Furfuracea Extract	68648-41-9	-
		90028-67-4	
Vanillin	Vanillin	121-33-5	-

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.