

SAFETY DATA SHEET

CARDAMOM & ORRIS — fragrance compound, 100%

According to Regulation (EC) No 1907/2006 (REACH), Annex II, as amended by Regulation (EU) 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product form	Mixture
Trade name	CARDAMOM & ORRIS
UFI	F8M5-S0DW-900N-YN7S
Type of product	Perfumes, fragrances

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

Identified uses	Fragrance compound for the manufacture of candles, wax melts, diffusers and air-care products. For professional use.
Uses advised against	Not for personal use. Not for direct application to skin. Cosmetic use only within the IFRA limits and with a cosmetic safety assessment.

1.3 Details of the supplier of the safety data sheet

Company	VEGTEAM, Lda. — Eco Candle Project
Address	R. Quinta de Santa Marta, Lojas EF, 1495-171 Algés, Portugal
E-mail	info@ecocandleproject.com
Website	www.ecocandleproject.com

1.4 Emergency telephone number

Emergency number	CIAV — Poison Information Centre (INEM): +351 800 250 250 (24 h)
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin irritation	Skin Irrit. 2 — H315
Eye irritation	Eye Irrit. 2 — H319
Skin sensitisation	Skin Sens. 1 — H317
Aquatic hazard, chronic	Aquatic Chronic 1 — H410

Classification according to Regulation (EC) No 1272/2008 [CLP], as given in the manufacturer's SDS (calculation method); verified by Eco Candle Project with the same method.

2.2 Label elements



GHS07



GHS09

Hazard pictograms	GHS07, GHS09
Signal word	WARNING
Contains (hazard-determining)	Tetramethyl acetyloctahydronaphthalenes (OTNE), Pentadecan-15-olide, Linalyl acetate, d-Limonene, Ethyl linalool, Citronellol, Linalool, alpha-Pinene, Methylenedioxyphenyl methylpropanal



Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects.
Supplemental information	EUH208 Contains 3-Carene, Eucalyptol (1,8-cineole), alpha-Phellandrene, 2,2,6-Trimethyl- α -propylcyclohexanepropanol, alpha-Tocopherol, Neryl acetate, Geraniol, beta-Pinene, Geranyl acetate, beta-Caryophyllene, Coumarin, Carvone, Cinnamal. May produce an allergic reaction.
Precautionary statements	P261 Avoid breathing mist/vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P391 Collect spillage. P501 Dispose of contents/container in accordance with local regulations.
Finished product	Candles: also apply the safety labelling of EN 15494. When supplied to consumers add P101/P102 and the name, address and telephone of the supplier.

2.3 Other hazards

The mixture contains no Substances of Very High Concern (SVHC) $\geq 0.1\%$, no PBT/vPvB substances (REACH Annex XIII) and no substances with endocrine-disrupting properties $\geq 0.1\%$ (Delegated Regulation (EU) 2017/2100 / Regulation (EU) 2018/605).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Mixture of fragrance substances. Hazardous components (and substances with a workplace exposure limit) as declared by the manufacturer:

Name	Identifiers	%	Classification (EC) No 1272/2008
Tetramethyl acetyloctahydronaphthalenes (OTNE)	CAS 54464-57-2 EC 259-174-3 REACH 01-2119489989-04	30.00 – 40.00	Skin Sens. 1B, H317; Skin Irrit. 2, H315; Aquatic Chronic 1, H410
Ethylene brassylate	CAS 105-95-3 EC 203-347-8 REACH 01-2119976314-33	10.00 – 15.00	Aquatic Chronic 3, H412
Linalyl acetate	CAS 115-95-7 EC 204-116-4 REACH 01-2119454789-19	2.50 – 5.00	Skin Sens. 1B, H317; Skin Irrit. 2, H315; Eye Irrit. 2, H319
d-Limonene	CAS 5989-27-5 EC 227-813-5	2.50 – 5.00	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 3, H412
Pentadecan-15-olide	CAS 106-02-5 EC 203-354-6 REACH 01-2119987323-31	2.50 – 5.00	Skin Sens. 1B, H317; Aquatic Chronic 2, H411
Citronellol	CAS 106-22-9 EC 203-375-0 REACH 01-2119453995-23	1.00 – 2.50	Skin Sens. 1B, H317; Skin Irrit. 2, H315; Eye Irrit. 2, H319
7-Methoxy-3,7-dimethyloctan-2-ol	CAS 41890-92-0 REACH 01-2120763501-60	1.00 – 2.50	Skin Irrit. 2, H315; Eye Irrit. 2, H319
Linalool	CAS 78-70-6 EC 201-134-4 REACH 01-2119474016-42	1.00 – 2.50	Skin Sens. 1B, H317; Skin Irrit. 2, H315; Eye Irrit. 2, H319
Ethyl linalool	CAS 10339-55-6 EC 233-732-6 REACH 01-2119969272-32	1.00 – 2.50	Skin Sens. 1B, H317; Eye Irrit. 2, H319



Name	Identifiers	%	Classification (EC) No 1272/2008
alpha-Pinene	CAS 7785-26-4 EC 232-077-3 REACH 01-2119979519-16	0.500 – 1.00	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Acute Tox. 4 (oral), H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Methylenedioxyphenyl methylpropanal	CAS 1205-17-0 EC 214-881-6 REACH 01-2120740119-58	0.500 – 1.00	Repr. 2, H361; Skin Sens. 1B, H317; Aquatic Chronic 2, H411
alpha-Cedrene	CAS 469-61-4 EC 207-418-4	0.500 – 1.00	Asp. Tox. 1, H304; Skin Irrit. 2, H315; Aquatic Acute 1, H400 (M = 10); Aquatic Chronic 1, H410 (M = 10)
Geraniol	CAS 106-24-1 EC 203-377-1 REACH 01-2119552430-49	0.100 – 0.500	Eye Dam. 1, H318; Skin Sens. 1, H317; Skin Irrit. 2, H315
gamma-Terpinene	CAS 99-85-4 EC 202-794-6 REACH 01-2120780478-40	0.100 – 0.500	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Repr. 2, H361; Aquatic Chronic 2, H411
beta-Pinene	CAS 18172-67-3 EC 242-060-2	0.100 – 0.500	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Geranyl acetate	CAS 105-87-3 EC 203-341-5 REACH 01-2119973480-35	0.100 – 0.500	Skin Sens. 1B, H317; Skin Irrit. 2, H315; Aquatic Chronic 3, H412
3-Carene	CAS 498-15-7 EC 207-856-6	0.100 – 0.500	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Acute Tox. 4 (inhalation), H332; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Eucalyptol (1,8-cineole)	CAS 470-82-6 EC 207-431-5	0.100 – 0.500	Flam. Liq. 3, H226; Skin Sens. 1B, H317; Eye Irrit. 2, H319
alpha-Phellandrene	CAS 99-83-2 EC 202-792-5	0.100 – 0.500	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
2,2,6-Trimethyl- α -propylcyclohexanepropanol	CAS 70788-30-6 REACH 01-2120085417-50	0.100 – 0.500	Skin Sens. 1B, H317
beta-Cedrene	CAS 546-28-1 EC 208-898-8	0.100 – 0.500	Asp. Tox. 1, H304; Aquatic Acute 1, H400 (M = 10); Aquatic Chronic 1, H410 (M = 10)
beta-Caryophyllene	CAS 87-44-5 EC 201-746-1 REACH 01-2120745237-53	0.100 – 0.500	Asp. Tox. 1, H304; Skin Sens. 1B, H317
alpha-Tocopherol	CAS 59-02-9 EC 200-412-2	0.100 – 0.500	Skin Sens. 1B, H317
Oxacyclohexadecen-2-one	CAS 34902-57-3 EC 422-320-3	0.100 – 0.500	Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Coumarin	CAS 91-64-5 EC 202-086-7 REACH 01-2119949300-45	0.100 – 0.500	Skin Sens. 1B, H317; Acute Tox. 4 (oral), H302
Carvone	CAS 99-49-0 EC 202-759-5 REACH 01-2119962458-25	0.100 – 0.500	Skin Sens. 1B, H317
Neryl acetate	CAS 141-12-8 EC 205-459-2 REACH 01-2120748334-54	0.100 – 0.500	Skin Sens. 1B, H317
Cinnamal	CAS 104-55-2 EC 203-213-9	< 0.100	Skin Sens. 1A, H317 (SCL $\geq$ 0.01%); Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412

Full text of H-statements: see Section 16.

**SECTION 4: First aid measures**

Eye contact	Rinse cautiously with water for at least 15 minutes, holding eyelids open. Remove contact lenses if easy to do. If eye irritation persists, seek medical advice.
Skin contact	Remove contaminated clothing. Wash skin with plenty of soap and water. If skin irritation or rash occurs, seek medical advice.
Inhalation	Move the person to fresh air and keep at rest. If symptoms persist, seek medical advice.
Ingestion	Rinse mouth. Do NOT induce vomiting. Contact the Poison Centre (CIAV 800 250 250) or a doctor.
Most important symptoms	Eye irritation. Skin irritation. May cause an allergic skin reaction.
Medical attention	Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media	Foam, dry chemical powder, carbon dioxide (CO ₂).
Unsuitable extinguishing media	Water jet.
Special hazards	Combustion may release smoke, CO and CO ₂ . Prevent run-off from entering drains or watercourses.
Advice for firefighters	Self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures

Personal precautions	Wear gloves and eye protection. Ensure ventilation. Remove ignition sources.
Environmental precautions	Prevent entry into drains, watercourses or soil.
Containment and cleaning up	Absorb with inert material (sand, diatomaceous earth, universal binder) and place in closed containers for disposal.

SECTION 7: Handling and storage

7.1 Safe handling	Avoid contact with skin and eyes; do not breathe vapours. Keep away from heat, ignition sources and naked flames. Do not eat, drink or smoke in the work area. Wash hands after handling.
7.2 Storage	Keep container tightly closed in a cool, dry, well-ventilated place (10–25 °C), protected from light, heat and ignition sources. Keep out of reach of children.
7.3 Specific end uses	See Section 1.2 and the IFRA certificate.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	No occupational exposure limits for the components. DNEL/PNEC: not available for the mixture.
Engineering controls	Adequate general ventilation; local exhaust for heated or large-scale operations. Eyewash available.
Eye/face protection	Safety glasses with side shields or goggles (EN 166).
Hand protection	Chemical-resistant nitrile gloves (EN ISO 374), ≥ 0.2 mm.
Respiratory protection	Not required with adequate ventilation; otherwise filter type A (EN 14387).

SECTION 9: Physical and chemical properties

Physical state	Liquid
Colour	Pale yellow to pale brown



Odour	Characteristic — fresh aromatic-woody (bergamot, cardamom, mint, jasmine, orris, cypress, sandalwood)
Flash point	89 °C (closed cup)
Flammability	Not classified (flash point > 60 °C)
pH	Not applicable
Solubility in water	Practically insoluble
Other properties	Melting/boiling point, density, vapour pressure, viscosity, auto-ignition: not determined by the manufacturer.

SECTION 10: Stability and reactivity

Reactivity / stability	Stable under normal conditions of use and storage. No dangerous reactions known.
Conditions to avoid	Heat, flames, ignition sources.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition	In case of combustion: CO, CO ₂ and smoke.

SECTION 11: Toxicological information

Acute toxicity (oral)	Not classified (ATE ≈ 45,249 mg/kg)
Acute toxicity (inhalation)	Not classified (ATE ≈ 300.0 mg/L)
Skin irritation	Skin Irrit. 2 — H315
Eye irritation	Eye Irrit. 2 — H319
Skin sensitisation	Skin Sens. 1 — H317
Aspiration hazard	Not classified
Mutagenicity, carcinogenicity, reproductive toxicity, STOT	Not classified

SECTION 12: Ecological information

12.1 Toxicity	Aquatic Chronic 1 — H410. Main contributors: tetramethyl acetyloctahydronaphthalenes (OTNE), alpha-Cedrene, beta-Cedrene, alpha-Pinene and pentadecan-15-olide.
12.2-12.7	No data for the mixture. No PBT/vPvB or endocrine-disrupting substances ≥ 0.1%. Do not allow to enter drains or watercourses.

SECTION 13: Disposal considerations

Product	Dispose of through a licensed waste operator according to local/national regulations. Do not discharge to drains.
Hazardous properties (waste)	HP4, HP13, HP14
Contaminated packaging	Empty completely; do not reuse; dispose of as unused product.

**SECTION 14: Transport information**

	ADR / RID	IMDG	IATA
14.1 UN number	UN 3082	UN 3082	UN 3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES)
14.3 Class	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental hazards	Yes	Yes — marine pollutant	Yes

14.6 Special precautions: ADR tunnel code (-); limited quantity 5 L/5 kg; packages ≤ 5 L/5 kg are exempt from the environmentally hazardous substance provisions (ADR SP 375, IMDG 2.10.2.7). 14.7 Bulk (IMO): not applicable.

SECTION 15: Regulatory information

EU regulations	Regulation (EC) No 1272/2008 (CLP); Regulation (EC) No 1907/2006 (REACH); Regulation (EU) 2020/878.
SVHC / Annex XIV / Annex XVII	No SVHC ≥ 0.1%; no Annex XIV substances.
Seveso III	E1 — Hazardous to the aquatic environment, Chronic 1.
PCN / UFI	UFI F8M5-S0DW-900N-YN7S (manufacturer's notification).
IFRA (51st)	Candles (Cat. 12): no restriction (100%). Reed diffusers (Cat. 10A): max 7.57%. Room sprays (Cat. 10B): max 20.84%. Fine fragrance (Cat. 4): max 36.03%. See IFRA certificate.

SECTION 16: Other information

Revision	Version 1.0 — Eco Candle Project edition, 16/10/2026. Based on the manufacturer's SDS for the pure fragrance (version 13.0 of 11/03/2024, issued 06/05/2024), allergen declaration and IFRA 51st Amendment certificate (06/05/2024). The manufacturer declares component concentrations as ranges. Exact values from the manufacturer's allergen declaration were used where available and the upper limit of the range otherwise (conservative); with these values the calculation reproduces the manufacturer's classification of the pure fragrance (H315, H317, H319, H410). The manufacturer has not issued SDSs for diluted preparations — the classifications of the 5%, 7%, 10% and 25% preparations were calculated by Eco Candle Project with the CLP calculation method.
Abbreviations	ATE = Acute Toxicity Estimate; UFI = Unique Formula Identifier; PCN = Poison Centre Notification; SCL = specific concentration limit; OTNE = tetramethyl acetyloctahydronaphthalenes; SVHC = Substance of Very High Concern.

Full text of H-statements (Sections 2 and 3):

H226 Flammable liquid and vapour. **H302** Harmful if swallowed. **H304** May be fatal if swallowed and enters airways. **H315** Causes skin irritation. **H317** May cause an allergic skin reaction. **H318** Causes serious eye damage. **H319** Causes serious eye irritation. **H332** Harmful if inhaled. **H361** Suspected of damaging fertility or the unborn child. **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.

This information is based on our current knowledge and on the manufacturer's data and describes the product for health, safety and environmental purposes only. Users must ensure suitability for their own application.