

SAFETY DATA SHEET

ORANGE MARMALADE — @ 10% preparation in wax (non-hazardous base)

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

△ NOTE: This document applies to the final mixture containing 10% of ORANGE MARMALADE fragrance and 90% of wax, considered a non-hazardous base. All hazard, composition and concentration data have been recalculated from the supplier's original SDS using the CLP calculation method.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identification

Product Name	Preparation with ORANGE MARMALADE at 10% in wax (non-hazardous base)
Fragrance Reference	ORANGE MARMALADE
UFI (pure fragrance)	QF9N-Q375-J00E-YDEC
Base	Wax, non-classified (e.g. soy, rapeseed, coconut or paraffin) — 90%
Intended Use	Scented candles, wax melts and scented waxes. Not intended for application to skin.

1.2 Company Identification

Company	Vegteam, Lda. — Eco Candle Project (ecocandleproject.com)
Address	R. Quinta de Santa Marta, Lojas EF, 1495-171 Algés, Portugal
Email	info@ecocandleproject.com
Emergency Telephone	Poison Control (CIAV/INEM): +351 800 250 250 (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] — calculated at 10% incorporation (additivity method, CLP Annex I):

Result	MIXTURE CLASSIFIED AS HAZARDOUS TO THE ENVIRONMENT — H412 (no pictogram, no signal word)
Skin sensitisation	Not classified — d-limonene at 0.893% < generic 1% limit (Skin Sens. 1B); 3,7-dimethyloctan-3-ol ≤ 0.50%; δ-damascone (1A) < 0.01% (limit 0.1%). EUH208 statement required (sensitisers ≥ 0.1%).
Skin irritation	Not classified — Σ Skin Irrit. 2 = 1.55% (threshold: 10%).
Eye irritation	Not classified — Σ Eye Irrit. 2 = 0.65% (threshold: 10%).
Aquatic Hazard Chronic	Aquatic Chronic 3 — H412. $100 \times M \times \text{Chronic 1} + 10 \times \text{Chronic 2} + \text{Chronic 3} = 31.7\% \geq 25\%$ (Chronic 2: 3.05% < 25%).
Acute toxicity (oral)	Not classified — ATE mix ≈ 256,400 mg/kg (threshold: 2000 mg/kg)
Notes	The pure fragrance (100%) is classified H315, H317 and H412. At 10% only H412 (environmental hazard) remains; sensitisation and skin irritation fall below the limits, but d-limonene and 3,7-dimethyloctan-3-ol require the EUH208 statement. See Annex — Calculation record.

2.2 Label Elements

Pictograms	None (not required for Aquatic Chronic 3)
Signal Word	None
Hazard Statements	H412 Harmful to aquatic life with long lasting effects.
Precautionary Statements	P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local regulations.
Supplemental statements	EUH208 Contains d-limonene and 3,7-dimethyloctan-3-ol. May produce an allergic reaction.
Finished product	Candles: safety labelling according to EN 15494 is also recommended.

2.3 Other hazards

According to Annex XIII of the REACH Regulation, the mixture does not contain PBT or vPvB substances at $\geq 0.1\%$.

The mixture does not contain substances with endocrine-disrupting properties at $\geq 0.1\%$.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Characterisation of the mixture

Mixture: ORANGE MARMALADE fragrance at 10% in wax (90%). Concentrations refer to the FINAL mixture at 10% (supplier SDS ranges $\times 0.1$).

Note: According to the allergen certificate (17/03/2026), actual contents in the pure fragrance are: d-limonene 8.933%, amyl cinnamal 0.459%, linalool 0.066%, citral 0.028% (in the 10% mixture: d-limonene 0.893%, amyl cinnamal 0.046%). These values were used in the calculation.

Substance	CAS No.	Conc. (%)	CLP Classification (component)
(R)-p-Mentha-1,8-diene (d-limonene)	5989-27-5	0.5 – <1	H226, H304, H315, H317 (1B), H400, H412
2-tert-Butylcyclohexyl acetate	88-41-5 / 20298-69-5 / 20298-70-8	0.5 – <1	H411
3,5,5-Trimethylhexyl acetate	58430-94-7	0.25 – <0.5	H411
3,7-Dimethyloctan-3-ol (tetrahydrolinalool)	78-69-3	0.1 – <0.5	H315, H319, H317 (1B)
Eucalyptus oil	8000-48-4 / 84625-32-1	0.025 – <0.1	H226, H304, H315, H317, H411
2-Methyl-3-phenyl-2-propenal (α -methylcinnamaldehyde)	101-39-3	0.025 – <0.1	H317 (1B), H400 (M=1), H412
2-(2-(4-Methyl-3-cyclohexen-1-yl)propyl)cyclopentanone	95962-14-4	0.025 – <0.1	H319, H400 (M=1), H412
3-Phenyl-2-propenenitrile (cinnamonnitrile)	4360-47-8 / 1885-38-7	0.01 – <0.1	H301, H312, H332, H317 (1B)

Substance	CAS No.	Conc. (%)	CLP Classification (component)
4-Methoxybenzaldehyde (anisaldehyde)	123-11-5	0.025 – <0.1	H361, H412
α-Amylcinnamaldehyde (amyl cinnamal)	122-40-7	0.025 – <0.1	H317 (1B), H411
1-Methyl-4(3)-(4-methyl-3-pentenyl)-3-cyclohexene-1-carbaldehyde	52475-86-2 / 52474-60-9	0.025 – <0.1	H400 (M=1), H410 (M=1)
Undecanal	112-44-7	0.01 – <0.025	H315, H400 (M=1), H410 (M=1)
Benzaldehyde	100-52-7	0.01 – <0.025	H302, H332, H319, H361d, H335, H411
7-Methyl-3-methylenoocta-1,6-diene (myrcene)	123-35-3	0.01 – <0.025	H226, H304, H315, H319, H400 (M=1), H411
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one (δ-damascone)	57378-68-4 / 71048-82-3	0.0025 – <0.01	H302, H315, H317 (1A), H400 (M=1), H410 (M=1)
Base wax (inert)	—	90	Not classified

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse immediately with running water for several minutes, keeping eyelids open. If irritation persists, seek medical advice.
Skin contact	Wash with soap and water. If skin irritation or rash occurs, seek medical advice. Molten wax: cool immediately with cold water; do not remove adhering wax; seek medical attention in case of burns.
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 Poison Control: +351 800 250 250.
Symptoms / effects	May produce an allergic reaction in sensitised persons.
Emergency telephone	Poison Control (CIAV/INEM): +351 800 250 250

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, alcohol-resistant foam, dry chemical powder, carbon dioxide (CO ₂).
Unsuitable extinguishing media	High-volume water jet. Never use water on burning molten wax.

Specific hazards	Combustion may release smoke, carbon monoxide (CO) and carbon dioxide (CO ₂).
PPE for firefighters	Self-contained breathing apparatus and full protective clothing.
Special remarks	Collect contaminated fire-fighting water separately; it must not enter drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear gloves and eye protection. Avoid contact with skin and eyes. Ensure ventilation.
Environmental precautions	Prevent entry into drains, watercourses or soil. If rivers or lakes are contaminated, inform the authorities.
Containment/Cleanup	Solid wax: collect mechanically. Molten wax: allow to solidify and scrape off; absorb liquid residues with inert material. Place in a closed container.
Disposal	See Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Melt the wax with controlled heating and good ventilation. Add the fragrance at the temperature indicated in the wax technical data sheet. **Caution: the flash point of the pure fragrance is 67 °C** — when adding above this temperature, work away from flames and ignition sources, with good ventilation and without overheating, and close the fragrance container immediately. Never leave molten wax unattended. Wash hands after use.

7.2 Conditions for safe storage

Store in a cool, dry, well-ventilated place (10–30 °C), protected from direct sunlight and from heat and ignition sources. Keep out of reach of children. Storage class (TRGS 510): 11 — Combustible solids.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

The supplier's SDS lists no occupational exposure limits (OEL) for the fragrance components. DNEL and PNEC not available for the mixture.

8.2 Exposure controls

Engineering controls	Adequate general ventilation; local exhaust recommended for hot or large-scale operations.
Hand protection	Nitrile gloves (EN ISO 374 / EN 16523-1), breakthrough time ≥ 10 min for incidental contact.
Eye protection	Safety glasses with side shields (EN 166).

Respiratory protection	Not required under normal conditions with adequate ventilation.
Thermal hazards	Molten wax: risk of burns. Wear heat-resistant gloves (EN 407).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid at 20 °C (wax); liquid when molten
Colour	White/ivory to pale yellow (depends on the base wax)
Odour	Characteristic — citrus, orange, orange marmalade
pH	Not applicable
Melting point	Depends on the base wax (typically 45–65 °C)
Flash point	Not determined for the mixture (pure fragrance: 67 °C, closed cup; base wax typically > 200 °C). Solid at ambient temperature — not classified as flammable.
Density	≈ 0.90–0.95 g/cm ³ at 20 °C (pure fragrance: 0.975 g/cm ³)
Solubility	Insoluble in water; soluble in oils and organic solvents
Vapour pressure	Low (pure fragrance: 0.2521 hPa at 20 °C, calculated)

SECTION 10: STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions of use and storage.
Reactivity	Does not decompose if stored and used as directed.
Conditions to avoid	Overheating of the wax, open flames and ignition sources, prolonged direct sunlight.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	In case of combustion: CO, CO ₂ and smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

This mixture at 10% has not been tested as a whole. The assessment is based on the CLP calculation method, using component data from the supplier's SDS (v1.0, 17/03/2026) and the allergen certificate (17/03/2026).

Acute toxicity (oral): calculated ATE mix ≈ 256,400 mg/kg — not classified.

Skin corrosion/irritation: not classified (Σ Skin Irrit. 2 = 1.55%).

Skin sensitisation: not classified (d-limonene at 0.893% < 1%). Contains sensitisers ≥ 0.1% — EUH208.

Eye irritation: not classified.

Germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT and aspiration hazard: not classified (Repr. 2 components individually < 3%).

SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity (at 10%): Aquatic Chronic 3 — H412.

Note: The pure fragrance (100%) classifies Aquatic Chronic 3, H412 (supplier). Aquatic Chronic 1 components (M-factor = 1): undecanal, δ -damascone and 1-methyl-4(3)-(4-methyl-3-pentenyl)-3-cyclohexene-1-carbaldehyde.

Persistence, degradability and bioaccumulation: not available for the mixture.

PBT/vPvB assessment: the mixture does not contain PBT or vPvB substances at $\geq 0.1\%$ (REACH Annex XIII).

SECTION 13: DISPOSAL CONSIDERATIONS

Product waste: hazardous property HP14 (ecotoxic — $100 \times \Sigma H410 \times M + 10 \times \Sigma H411 + \Sigma H412 = 31.7\% \geq 25\%$). Dispose of through a licensed operator according to local/national regulations. Do not discharge to sewers.

Contaminated packaging: empty completely; do not reuse; dispose of through an authorised waste operator.

SECTION 14: TRANSPORT INFORMATION

Transport classification (at 10%):

- UN number: not applicable
- Proper shipping name: not regulated
- Class / Packing group: not applicable
- Environmental hazard / marine pollutant: no

Note: Not classified as dangerous goods (ADR/RID/IMDG/IATA). The pure fragrance (ORANGE MARMALADE 100%) is also not regulated for transport.

SECTION 15: REGULATORY INFORMATION

Applicable Regulations:

- Regulation (EC) No. 1272/2008 (CLP) — Classification and labelling
- Regulation (EC) No. 1907/2006 (REACH)
- Regulation (EU) 2020/878 — SDS format

PCN notification (CLP Annex VIII): NOT REQUIRED — the mixture is classified only for an environmental hazard (H412); Annex VIII applies to health and physical hazards.

REACH Annex XVII: pure fragrance subject to entries 3 and 75 (tattoo inks — not relevant). No SVHC or Annex XIV substances.

IFRA (51st Amendment): limit for candles (Category 12) = 100.00%. At 10% it complies. See IFRA certificate.

SECTION 16: OTHER INFORMATION

Date of preparation: September 2026 — 10% preparation based on the ORANGE MARMALADE SDS (v1.0, 17/03/2026), the allergen certificate (17/03/2026) and the IFRA 51 certificate (17/03/2026).

Prepared by: Eco Candle Project (Vegteam, Lda.) — based on supplier data.

Full text of H- and EUH-statements: H226 Flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H361 Suspected of damaging fertility or the unborn child. H361d Suspected of damaging 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. EUH208 Contains d-limonene and 3,7-dimethyloctan-3-ol. May produce an allergic reaction. EUH210 Safety data sheet available on request.

Acronyms: ATE = Acute Toxicity Estimate; SCL = Specific Concentration Limit; UFI = Unique Formula Identifier; PCN = Poison Centre Notification.

This document is intended for internal use and B2B communication. Eco Candle Project assumes no liability for unintended uses. If a base other than inert base wax is used, the classification must be recalculated.

ANNEX — CALCULATION RECORD (10% IN INERT BASE WAX)

Method: upper limit of each range in the supplier's SDS $\times 0.1$; for d-limonene (8.933%) and amyl cinnamal (0.459%) the actual contents from the allergen certificate (17/03/2026) were used. Inert base wax = 0% contribution. Conservative method: applied to the pure fragrance it would give a more severe aquatic result than the supplier's classification (Aquatic Chronic 3), which uses exact contents.

Hazard class	Fragrance 100% (supplier)	Calculation at 10% / threshold	Result at 10%
Acute toxicity (oral)	Not classified (ATE > 2000)	$100/\text{ATE} = \Sigma \text{Ci}/\text{ATE}_i$ (cinnamitrile, benzaldehyde, δ -damascone) $\rightarrow \text{ATE} \approx 256,400 \text{ mg/kg} / \leq 2000$	Not classified
Skin corrosion/irritation	Skin Irrit. 2 — H315	$\Sigma \text{Skin Irrit. 2} = 1.55\% / \geq 10\%$	Not classified
Serious eye damage/irritation	Not classified	$\Sigma \text{Eye Irrit. 2} = 0.65\% / \geq 10\%$	Not classified
Skin sensitisation	Skin Sens. 1 — H317	d-limonene 0.893% (1B, limit 1%); 3,7-dimethyloctan-3-ol $\leq 0.50\%$ (1B, limit 1%); δ -damascone < 0.01% (1A, limit 0.1%)	Not classified — EUH208
Reproductive toxicity	Not classified	Max. individual Repr. 2: 0.10% / $\geq 3\%$	Not classified
Aquatic acute	Not classified	$\Sigma \text{Aquatic Acute 1} \times \text{M} = 1.25\% / \geq 25\%$	Not classified
Aquatic chronic	Aquatic Chronic 3 — H412	Chronic 2: $10 \times \text{M} \times \Sigma \text{C1} + \Sigma \text{C2} = 3.05\% / \geq 25\%$; Chronic 3: 31.7% / $\geq 25\%$	Aquatic Chronic 3 — H412
Physical hazards	Not classified (FP 67 °C)	FP > 60 °C; solid mixture	Not classified

Conclusion: mixture classified H412 only (no pictogram, no signal word) + EUH208.