

SAFETY DATA SHEET

NORDIC FIR — 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 NORDIC FIR fragrance and 90% of non-hazardous wax 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 NORDIC FIR at 10% in non-hazardous wax base
Fragrance reference	NORDIC FIR
UFI (pure fragrance)	X200-U0CW-600R-QEM6
Base	Non-hazardous, non-classified wax (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 / summation method, CLP Annex I):

Result	CLASSIFIED FOR THE ENVIRONMENT ONLY — H412 (no health hazard classification)
Skin sensitisation	Not classified — highest sensitiser: Mentha arvensis extract 0.852% < 1% (generic limit). Sensitisers ≥ 0.1% (Mentha arvensis extract, 4-tert-Butylcyclohexyl acetate, Citrus limon oil, Linalool, Eucalyptus globulus oil, Cupressus funebris oil, Artemisia vulgaris oil, beta-Pinene, 2,2,6-Trimethyl- α -propylcyclohexanepropanol, alpha-Pinene) require the supplemental statement EUH208. ▲ Margin: at a fragrance load of about 11.7% or more (cornmint extract ≥ 1%) the mixture becomes Skin Sens. 1 — H317.
Eye irritation	Not classified — no Eye Irrit. 2 component reaches the 1% relevance cut-off (Σ relevant = 0%; threshold: 10%).
Skin irritation	Not classified — Σ Skin Irrit. 2 (components ≥ 1%) + 10 × Skin Corr. 1C = 0% (threshold: 10%).
Aspiration hazard	Not classified — Σ Asp. Tox. 1 = 1.884% < 10%.
Aquatic hazard — acute	Not classified — $\Sigma(M \times \text{Acute } 1) = 0.804\% < 25\%$.
Aquatic hazard — chronic	Aquatic Chronic 3 — H412. $100 \times M \times \text{Chronic } 1 + 10 \times \text{Chronic } 2 + \text{Chronic } 3 = 105.9\% \geq 25\%$ (Chronic 2 test: 10.58% < 25%).

Acute toxicity (oral)	Not classified — ATE mix $\approx$ 23,148 mg/kg (threshold: 2000 mg/kg).
Notes	The pure fragrance (100%) is classified H315, H319, H317, H304 and H411 (Danger). Dilution removes the irritation and aspiration hazards and reduces the aquatic one. See Annex — Calculation record.

2.2 Label elements

Pictograms	None required
Signal word	None (no signal word required)
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 (EUH208)	EUH208 Contains Mentha arvensis extract, 4-tert-Butylcyclohexyl acetate, Citrus limon oil, Linalool, Eucalyptus globulus oil, Cupressus funebris oil, Artemisia vulgaris oil, beta-Pinene, 2,2,6-Trimethyl- α -propylcyclohexanepropanol, alpha-Pinene. May produce an allergic reaction.
Finished product	Candles: candle safety labelling according to EN 15494 is also recommended. Consumer product: add P102 and supplier name/address/telephone.

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%. It does not contain SVHC (Candidate List) substances at $\geq$ 0.1%.

The mixture does not contain substances with endocrine-disrupting properties at $\geq$ 0.1% (Delegated Regulation (EU) 2017/2100 / Regulation (EU) 2018/605).

Molten wax can cause thermal burns.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Characterisation of the mixture

Mixture: NORDIC FIR fragrance at 10% in inert wax base (90%). Concentrations refer to the FINAL mixture at 10% (supplier SDS values $\times$ 0.1).

Substance	CAS / EC No.	Conc. at 10% (%)	CLP classification (component)
Pinus sylvestris oil (Scots pine oil)	8000-41-7 / 8006-64-2 232-268-1	0.932	Skin Irrit. 2 (H315), Eye Irrit. 2 (H319)
Mentha arvensis extract (cornmint)	90063-97-1 290-058-5	0.852	Acute Tox. 4 (oral) (H302), Skin Irrit. 2 (H315), Aquatic Chronic 2 (H411), Skin Sens. 1 (H317), Eye Irrit. 2 (H319)
4-tert-Butylcyclohexyl acetate	32210-23-4 250-954-9	0.684	Skin Sens. 1B (H317)
Citrus limon oil (lemon oil)	8008-56-8 616-925-3	0.6	Flam. Liq. 3 (H226), Asp. Tox. 1 (H304), Skin Irrit. 2 (H315), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Skin Sens. 1 (H317); M = 1 (acute/chronic)
2-Phenylethanol	60-12-8 200-456-2	0.496	Acute Tox. 4 (oral) (H302), Eye Irrit. 2 (H319)
Linalool (3,7-dimethyl-1,6-octadien-3-ol)	78-70-6 201-134-4	0.456	Skin Sens. 1B (H317)



Ethyl maltol (2-ethyl-3-hydroxy-4H-pyran-4-one)	4940-11-8 225-582-5	0.436	Acute Tox. 4 (oral) (H302)
Eucalyptus globulus oil	84625-32-1 / 8000-48-4 308-257-3	0.404	Flam. Liq. 3 (H226), Asp. Tox. 1 (H304), Skin Irrit. 2 (H315), Aquatic Chronic 2 (H411), Skin Sens. 1 (H317)
1-[(2-tert-Butyl)cyclohexyloxy]-2-butanol	139504-68-0 412-300-2	0.4	Aquatic Chronic 2 (H411)
Cupressus funebris oil (Chinese cedarwood)	85085-29-6 285-360-9	0.284	Asp. Tox. 1 (H304), Skin Corr. 1C (H314), Skin Sens. 1B (H317), Aquatic Chronic 2 (H411)
Terpinyl acetate	8007-35-0 201-265-7	0.26	Aquatic Chronic 2 (H411)
Artemisia vulgaris oil (mugwort)	84775-45-1 284-503-2	0.232	Flam. Liq. 3 (H226), Acute Tox. 4 (oral) (H302), Asp. Tox. 1 (H304), Acute Tox. 4 (inhal.) (H332), STOT SE 2 (H371), Skin Sens. 1 (H317)
beta-Pinene	127-91-3 204-872-5	0.216	Flam. Liq. 3 (H226), Asp. Tox. 1 (H304), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)
2,2,6-Trimethyl- α -propylcyclohexanepropanol	70788-30-6 274-892-7	0.184	Skin Sens. 1B (H317)
alpha-Pinene	80-56-8 201-291-9	0.14	Flam. Liq. 3 (H226), Acute Tox. 4 (oral) (H302), Asp. Tox. 1 (H304), Skin Irrit. 2 (H315), Skin Sens. 1B (H317), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410); M = 1 (acute/chronic)
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6 268-264-1	0.096	Skin Irrit. 2 (H315), Skin Sens. 1B (H317), Aquatic Chronic 2 (H411)
Linalyl acetate	115-95-7 204-116-4	0.084	Skin Irrit. 2 (H315), Skin Sens. 1B (H317), Eye Irrit. 2 (H319)
2-tert-Butylcyclohexyl acetate	88-41-5 201-828-7	0.056	Aquatic Chronic 2 (H411)
2-Methylundecanal	110-41-8 203-765-0	0.044	Skin Irrit. 2 (H315), Skin Sens. 1B (H317), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410); M = 1 (acute/chronic)
(2E)-2-Ethyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol	28219-61-6 248-908-8	0.024	Aquatic Chronic 1 (H410), Eye Irrit. 2 (H319); M = 1 (acute/chronic)
beta-Methyl-3-(1-methylethyl)benzenepropanal	125109-85-5 412-050-4	0.024	Aquatic Chronic 2 (H411)
Citronellol (3,7-dimethyl-6-octen-1-ol)	106-22-9 203-375-0	0.015	Skin Irrit. 2 (H315), Skin Sens. 1B (H317), Eye Irrit. 2 (H319)
3-Pentyltetrahydro-2H-pyran-4-yl acetate	38285-49-3 242-640-5	0.01	Aquatic Chronic 3 (H412)
Hexyl cinnamic aldehyde	101-86-0 202-983-3	0.008	Skin Sens. 1B (H317), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411)
p-Mentha-1,8-diene (limonene)	68647-72-3 / 8028-48-6 232-433-8	0.008	Flam. Liq. 3 (H226), Asp. Tox. 1 (H304), Skin Irrit. 2 (H315), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Skin Sens. 1 (H317); M = 1 (acute/chronic)
7-Acetyl-1,1,3,4,4,6-hexamethyltetraline	1506-02-1 216-133-4	0.004	Acute Tox. 4 (oral) (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410); M = 1 (acute/chronic)
Wax base (inert)	—	90	Not classified

Full text of H-statements: see Section 16. Other components are not classified or are below the relevant cut-off values.

Substances with workplace exposure limits: Pinus sylvestris oil (see Section 8); diethyl phthalate (CAS 84-66-2) < 0.1%. Other components present at < 0.1% (not listed): (3-(5,5,6-trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol) and methyl ionone. Endocrine disruptors > 0.1%: none. PBT/vPvB > 0.1%: none.

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse cautiously with water for at least 15 minutes, lifting eyelids. Remove contact lenses if easy to do. Continue rinsing. If eye irritation persists, seek medical advice.
Skin contact	Remove contaminated clothing. Wash with plenty of 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 for 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.
Most important symptoms / effects	No significant acute effects expected. Repeated skin contact may cause allergic reactions in sensitised persons (EUH208).
Medical attention	Treat symptomatically. Show this SDS to the doctor.
Emergency telephone	Poison Control (CIAV/INEM): +351 800 250 250

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Alcohol-resistant foam, dry chemical powder, carbon dioxide (CO ₂), water spray.
Unsuitable extinguishing media	High-volume water jet.
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 / clean-up	Solid wax: collect mechanically. Molten wax: allow to solidify and scrape up; 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 lowest temperature recommended by the wax manufacturer, ideally ≤ 65 °C (fragrance flash point 64 °C, closed cup); no open flames. Weigh the fragrance accurately — see the 11.7% margin in Section 2. Do not leave melting wax unattended. Wash hands after use.

7.2 Conditions for safe storage

Store in a cool, dry, well-ventilated place (10–25 °C), protected from light and from heat and ignition sources. Keep containers tightly closed. Keep out of reach of children. Storage class (TRGS 510): 11 — Combustible solids.

7.3 Specific end use(s)

Candles, wax melts, reed diffusers and air-care products, within the IFRA limits in Section 15.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits listed in the supplier's SDS: Pinus sylvestris oil (as turpentine) — 8-h TWA 566 mg/m³ (100 ppm), 15-min STEL 850 mg/m³ (150 ppm); diethyl phthalate (< 0.1%) — 8-h TWA 5 mg/m³, STEL 10 mg/m³. 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).
Skin / body protection	Work clothing; apron for large quantities.
Respiratory protection	Not required under normal conditions with adequate ventilation.
Thermal hazards	Molten wax: risk of burns. Wear heat-resistant gloves (EN 407).
Environmental exposure	Do not discharge to drains or the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid at 20 °C (wax); liquid when molten
Colour	White/ivory to pale yellow (depends on wax base)
Odour	Characteristic — pine needle, fir, peppermint, eucalyptus, cedarwood
pH	Not applicable
Melting point	Depends on wax base (typically 45–65 °C)
Flash point	> 61 °C (manufacturer's 10% SDS); pure fragrance 64 °C closed cup; wax base typically > 200 °C
Density	≈ 0.90–0.95 g/cm ³ at 20 °C (depends on wax)
Solubility	Insoluble in water

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under normal conditions of use.
Chemical stability	Stable under normal conditions of use and storage.
Conditions to avoid	Heat, open flames, ignition sources, prolonged direct sunlight, overheating of the wax.
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 (issued 16/01/2026) and the allergen certificate (extended list).

Acute toxicity (oral)	Calculated ATE mix $\approx$ 23,148 mg/kg — not classified.
Skin irritation	Not classified.
Eye irritation	Not classified.
Skin sensitisation	Not classified (highest sensitiser: cornmint extract 0.852% < 1%); EUH208 applies.
CMR, STOT, aspiration	Not classified.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Aquatic toxicity (at 10%): Aquatic Chronic 3 — H412. The pure fragrance (100%) is Aquatic Chronic 2 (H411), mainly due to lemon oil, cornmint extract and eucalyptus oil.
Persistence and degradability	The mixture does not meet the criteria for classification as persistent (supplier data).
Bioaccumulative potential / mobility in soil	No data available.
PBT / vPvB	Does not contain PBT or vPvB substances at $\geq$ 0.1%.
Endocrine disrupting properties	None identified.

SECTION 13: DISPOSAL CONSIDERATIONS

Product waste: hazardous properties HP14 (ecotoxic). Dispose of through a licensed operator according to local/national regulations (Decree-Law 102-D/2020). Do not discharge to sewers or watercourses.

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

SECTION 14: TRANSPORT INFORMATION

Transport classification (at 10%): not classified as dangerous goods (ADR/RID/IMDG/IATA) — Aquatic Chronic 3 is not regulated for transport.

UN number	Not applicable
Proper shipping name	Not regulated
Class / packing group	Not applicable
Marine pollutant	No

If the base is flammable (e.g. ethanol-based room spray), transport classification must be re-assessed. The pure fragrance (100%) is UN 3082, class 9.

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
- Regulation (EU) 2023/988 (GPSR) — for consumer products

PCN notification (CLP Annex VIII): NOT REQUIRED at 10% — the mixture is classified only for environmental hazards (H412), which are outside the scope of Annex VIII. EUH208 is a supplemental statement, not a classification. If the load reaches about 11.7% (H317), PCN becomes required.

REACH: no SVHC (Candidate List) or Annex XIV substances. Annex XVII: no restriction relevant to candles and air care.

IFRA (51st Amendment), calculated from the manufacturer's certificate for the pure fragrance (05/10/2026): limit for candles (Category 12) = 100.00% of this 10% preparation. It complies.

Chemical safety assessment: not carried out for the mixture.

SECTION 16: OTHER INFORMATION

Date of preparation: October 2026 — 10% preparation based on the manufacturer's SDS (ref. FN0006401, version 1 of 15/04/2025, issued 16/01/2026), the manufacturer's SDS for the 5%, 10% and 25% preparations (SC-102407/8/9, 16/01/2026), the allergen certificates — extended list (16/01/2026) and the manufacturer's IFRA 51 certificate for the pure fragrance (05/10/2026).

Prepared by: Eco Candle Project (Vegteam, Lda.) — based on supplier data. Version 1.1 — Section 15 updated with the IFRA certificate for the pure fragrance (05/10/2026).

Full text of H-statements: H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H371 May cause damage to organs. 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 (name of sensitising substance). May produce an allergic reaction.

Acronyms: ATE = Acute Toxicity Estimate; SCL = Specific Concentration Limit; UFI = Unique Formula Identifier; PCN = Poison Centre Notification; MIM = Mixture in Mixture; HP = hazardous property of waste.

This document is intended for internal use and B2B communication. The information is based on our present knowledge and on supplier data and does not constitute a guarantee of product properties. Eco Candle Project assumes no liability for unintended uses. If a base other than an inert wax is used, the classification must be recalculated.

ANNEX — CALCULATION RECORD (10%)

Method: each component % in the supplier's SDS $\times$ 0.1; summation/additivity rules of CLP Annex I; generic concentration limits (no SCLs declared by the supplier); for skin/eye irritation only components $\geq 1\%$ are relevant (CLP 3.2.3.3.1 / 3.3.3.3.1); M = 1 for all Aquatic Acute 1 / Chronic 1 components; ATE = 500 mg/kg (converted point estimate) for each Acute Tox. 4 oral component. Base = 0% contribution.

Hazard class	Fragrance 100% (supplier)	Calculation at 10% / threshold	Result at 10%
Acute toxicity (oral)	Not classified (ATE 2,325.6)	$ATE = 100 / (2.16 / 500) \approx 23,148 \text{ mg/kg} / \leq 2000$	Not classified
Skin irritation	Skin Irrit. 2 — H315	$\Sigma \text{ Skin Irrit. 2 } (\geq 1\%) + 10 \times \text{Skin Corr. 1C } (\geq 1\%) = 0\% / \geq 10\%$	Not classified
Eye irritation	Eye Irrit. 2 — H319	$\Sigma \text{ Eye Irrit. 2 } (\geq 1\%) = 0\% / \geq 10\%$	Not classified
Skin sensitisation	Skin Sens. 1 — H317	Cornmint extract 0.852%; 4-tert-butylcyclohexyl acetate 0.684%; lemon oil 0.6%; linalool 0.456% / $\geq 1\%$ (classify) $\cdot \geq 0.1\%$ (EUH208)	Not classified (EUH208)
Aspiration	Asp. Tox. 1 — H304	$\Sigma \text{ Asp. Tox. 1} = 1.884\% / \geq 10\%$	Not classified
STOT SE	Not classified	STOT SE 2 (Artemisia oil) = 0.232% / $\geq 10\%$	Not classified
Aquatic acute	Not classified	$\Sigma M \times \text{Acute 1} = 0.804\% / \geq 25\%$	Not classified
Aquatic chronic	Aquatic Chronic 2 — H411	C1: 0.82% / $\geq 25\%$ C2: $10 \times 0.82 + 2.384 = 10.58\% / \geq 25\%$ C3: $100 \times 0.82 + 10 \times 2.384 + 0.01 = 105.9\% / \geq 25\%$	Aquatic Chronic 3 — H412

Physical hazards	Not classified (FP 64 °C)	FP > 60 °C	Not classified
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Conclusion: H412 (no pictogram, no signal word) + EUH208.