

SAFETY DATA SHEET

NORDIC FIR — 5% preparation in 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 5% of NORDIC FIR fragrance and 95% of 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 NORDIC FIR at 5% in non-hazardous base
Fragrance reference	NORDIC FIR
UFI (pure fragrance)	X200-U0CW-600R-QEM6
Base	Non-hazardous, non-classified base — 95%
Intended use	Air-care products and non-cosmetic applications in a non-hazardous base. 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 5% 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 0.426% < 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) require the supplemental statement EUH208.
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 = 0.942% < 10%.
Aquatic hazard — acute	Not classified — $\Sigma(M \times \text{Acute } 1) = 0.402\% < 25\%$.
Aquatic hazard — chronic	Aquatic Chronic 3 — H412. $100 \times M \times \text{Chronic } 1 + 10 \times \text{Chronic } 2 + \text{Chronic } 3 = 52.9\% \geq 25\%$ (Chronic 2 test: 5.29% < 25%).
Acute toxicity (oral)	Not classified — ATE mix ≈ 46,296 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.
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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. May produce an allergic reaction.
Finished product	Consumer product: add P102 and the name/address/telephone of the supplier. Label the finished product according to its use (CLP and applicable standards).

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).

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Characterisation of the mixture

Mixture: NORDIC FIR fragrance at 5% in inert base (95%). Concentrations refer to the FINAL mixture at 5% (supplier SDS values $\times 0.05$).

Substance	CAS / EC No.	Conc. at 5% (%)	CLP classification (component)
Pinus sylvestris oil (Scots pine oil)	8000-41-7 / 8006-64-2 232-268-1	0.466	Skin Irrit. 2 (H315), Eye Irrit. 2 (H319)
Mentha arvensis extract (cornmint)	90063-97-1 290-058-5	0.426	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	0.342	Skin Sens. 1B (H317)
Citrus limon oil (lemon oil)	8008-56-8 616-925-3	0.3	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	0.248	Acute Tox. 4 (oral) (H302), Eye Irrit. 2 (H319)
Linalool (3,7-dimethyl-1,6-octadien-3-ol)	78-70-6 201-134-4	0.228	Skin Sens. 1B (H317)
Ethyl maltol (2-ethyl-3-hydroxy-4H-pyran-4-one)	4940-11-8 225-582-5	0.218	Acute Tox. 4 (oral) (H302)
Eucalyptus globulus oil	84625-32-1 / 8000-48-4 308-257-3	0.202	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	0.2	Aquatic Chronic 2 (H411)
Cupressus funebris oil (Chinese cedarwood)	85085-29-6 285-360-9	0.142	Asp. Tox. 1 (H304), Skin Corr. 1C (H314), Skin Sens. 1B (H317), Aquatic Chronic 2 (H411)
Terpinyl acetate	8007-35-0 201-265-7	0.13	Aquatic Chronic 2 (H411)
Artemisia vulgaris oil (mugwort)	84775-45-1 284-503-2	0.116	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	0.108	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	0.092	Skin Sens. 1B (H317)
alpha-Pinene	80-56-8 201-291-9	0.07	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	0.048	Skin Irrit. 2 (H315), Skin Sens. 1B (H317), Aquatic Chronic 2 (H411)
Linalyl acetate	115-95-7 204-116-4	0.042	Skin Irrit. 2 (H315), Skin Sens. 1B (H317), Eye Irrit. 2 (H319)
2-tert-Butylcyclohexyl acetate	88-41-5 201-828-7	0.028	Aquatic Chronic 2 (H411)
2-Methylundecanal	110-41-8 203-765-0	0.022	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	0.012	Aquatic Chronic 1 (H410), Eye Irrit. 2 (H319); M = 1 (acute/chronic)
beta-Methyl-3-(1-methylethyl)benzenepropanal	125109-85-5 412-050-4	0.012	Aquatic Chronic 2 (H411)
Citronellol (3,7-dimethyl-6-octen-1-ol)	106-22-9 203-375-0	0.0075	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	0.005	Aquatic Chronic 3 (H412)
Hexyl cinnamic aldehyde	101-86-0 202-983-3	0.004	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	0.004	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	0.002	Acute Tox. 4 (oral) (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410); M = 1 (acute/chronic)
Inert base	—	95	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.
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	Collect mechanically (solids) or absorb with inert material (liquids). Place in a closed container for disposal.
Disposal	See Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Wear protective gloves. Ensure good ventilation. Do not eat, drink or smoke while handling. 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.

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	Not applicable, unless the base is heated.
Environmental exposure	Do not discharge to drains or the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Depends on the base (liquid or solid)
Colour	Depends on the base
Odour	Characteristic — pine needle, fir, peppermint, eucalyptus, cedarwood
pH	Not applicable
Flash point	> 61 °C (manufacturer's 5% SDS); determined mainly by the base (pure fragrance: 64 °C, closed cup)
Density	Depends on the base
Solubility	Fragrance practically 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.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	In case of combustion: CO, CO ₂ and smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

This mixture at 5% 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 ≈ 46,296 mg/kg — not classified.
Skin irritation	Not classified.
Eye irritation	Not classified.

Skin sensitisation	Not classified (highest sensitiser: cornmint extract 0.426% < 1%); EUH208 applies.
CMR, STOT, aspiration	Not classified.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Aquatic toxicity (at 5%): 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 ≥ 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 5%): 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 5% — 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.

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): this 5% preparation may be used at 100% in room sprays (10B), reed diffusers (10A) and candles (12). Restricted: Cat. 5D, 8, 11A and 11B (incl. pillow sprays) max. 8.00% of this preparation; Cat. 5C max. 24.00%; Cat. 2 max. 35.40%; Cat. 3 and 5B max. 48.20%. See IFRA certificate.

Chemical safety assessment: not carried out for the mixture.

SECTION 16: OTHER INFORMATION

Date of preparation: October 2026 — 5% 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 base is used, the classification must be recalculated.

ANNEX — CALCULATION RECORD (5%)

Method: each component % in the supplier's SDS $\times$ 0.05; 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 5% / threshold	Result at 5%
Acute toxicity (oral)	Not classified (ATE 2,325.6)	$ATE = 100 / (1.08 / 500) \approx 46,296 \text{ mg/kg} / \leq 2000$	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 0.426%; 4-tert-butylcyclohexyl acetate 0.342%; lemon oil 0.3%; linalool 0.228% / $\geq 1\%$ (classify) $\cdot \geq 0.1\%$ (EUH208)	Not classified (EUH208)
Aspiration	Asp. Tox. 1 — H304	$\Sigma \text{ Asp. Tox. 1} = 0.942\% / \geq 10\%$	Not classified
STOT SE	Not classified	STOT SE 2 (Artemisia oil) = 0.116% / $\geq 10\%$	Not classified
Aquatic acute	Not classified	$\Sigma M \times \text{Acute 1} = 0.402\% / \geq 25\%$	Not classified
Aquatic chronic	Aquatic Chronic 2 — H411	C1: 0.41% / $\geq 25\%$ C2: $10 \times 0.41 + 1.192 = 5.29\% / \geq 25\%$ C3: $100 \times 0.41 + 10 \times 1.192 + 0.005 = 52.9\% / \geq 25\%$	Aquatic Chronic 3 — H412
Physical hazards	Not classified (FP 64 °C)	FP > 60 °C	Not classified

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