

SAFETY DATA SHEET

NORDIC FIR — 25% preparation in Augeo Clean Multi

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

▲ NOTE: This document applies to the final mixture containing 25% of NORDIC FIR fragrance and 75% of Augeo Clean Multi. 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 25% in Augeo Clean Multi
Fragrance reference	NORDIC FIR
UFI (pure fragrance)	X200-U0CW-600R-QEM6
Base	Augeo Clean Multi (2,2-dimethyl-1,3-dioxolane-4-methanol, CAS 100-79-8) — 75%
Intended use	Reed diffusers, after dilution to $\leq 39.28\%$ of this preparation ($\leq 9.82\%$ fragrance, IFRA Cat. 10A — see Section 15). 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 25% incorporation (additivity / summation method, CLP Annex I):

Result	MIXTURE CLASSIFIED AS HAZARDOUS — H319, H317, H411
Skin sensitisation	Skin Sens. 1 — H317. Sensitisers at $\geq 1\%$ (generic concentration limit): Mentha arvensis extract 2.13%, 4-tert-Butylcyclohexyl acetate 1.71%, Citrus limon oil 1.5%, Linalool 1.14%, Eucalyptus globulus oil 1.01%.
Eye irritation	Eye Irrit. 2 — H319. Fragrance components $\geq 1\%$ classified Eye Irrit. 2 = 5.7% (alone $< 10\%$), but Augeo Clean Multi (Eye Irrit. 2) is 75% of the mixture $\rightarrow \Sigma \approx 80.7\%$ (threshold: 10%).
Skin irritation	Not classified — Σ Skin Irrit. 2 (components $\geq 1\%$) + $10 \times$ Skin Corr. 1C = 6.97% (threshold: 10%).
Aspiration hazard	Not classified — Σ Asp. Tox. 1 = 4.71% $< 10\%$.
Aquatic hazard — acute	Not classified — $\Sigma(M \times \text{Acute } 1) = 2.01\% < 25\%$.
Aquatic hazard — chronic	Aquatic Chronic 2 — H411. $\Sigma(M \times \text{Chronic } 1) = 2.05\% < 25\%$ (not Chronic 1); $10 \times M \times \text{Chronic } 1 + \text{Chronic } 2 = 26.46\% \geq 25\%$.
Acute toxicity (oral)	Not classified — ATE mix $\approx 9,259$ 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. Augeo Clean Multi is NOT an inert base: it is classified Eye Irrit. 2 (H319), which adds H319 to the mixture. In a non-hazardous base, the 25% preparation would be H317 + H411 only (as in the manufacturer's 25% SDS).
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2.2 Label elements



GHS07



GHS09

Pictograms	GHS07 (exclamation mark) + GHS09 (environment)
Signal word	Warning
Hazard statements	H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P261 Avoid breathing vapours. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/eye protection. P302+P352 IF ON SKIN: Wash with plenty of soap and 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.
Contains	Mentha arvensis extract, 4-tert-Butylcyclohexyl acetate, Citrus limon oil, Linalool, Eucalyptus globulus oil
Finished product	Consumer diffuser: also add P101/P102 and the name/address/telephone of the supplier. See Section 15 (IFRA).

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 25% in Augeo Clean Multi (75%). Concentrations refer to the FINAL mixture at 25% (supplier SDS values $\times 0.25$).

Substance	CAS / EC No.	Conc. at 25% (%)	CLP classification (component)
Pinus sylvestris oil (Scots pine oil)	8000-41-7 / 8006-64-2 232-268-1	2.33	Skin Irrit. 2 (H315), Eye Irrit. 2 (H319)



Mentha arvensis extract (cornmint)	90063-97-1 290-058-5	2.13	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	1.71	Skin Sens. 1B (H317)
Citrus limon oil (lemon oil)	8008-56-8 616-925-3	1.5	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	1.24	Acute Tox. 4 (oral) (H302), Eye Irrit. 2 (H319)
Linalool (3,7-dimethyl-1,6-octadien-3-ol)	78-70-6 201-134-4	1.14	Skin Sens. 1B (H317)
Ethyl maltol (2-ethyl-3-hydroxy-4H-pyran-4-one)	4940-11-8 225-582-5	1.09	Acute Tox. 4 (oral) (H302)
Eucalyptus globulus oil	84625-32-1 / 8000-48-4 308-257-3	1.01	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	1	Aquatic Chronic 2 (H411)
Cupressus funebris oil (Chinese cedarwood)	85085-29-6 285-360-9	0.71	Asp. Tox. 1 (H304), Skin Corr. 1C (H314), Skin Sens. 1B (H317), Aquatic Chronic 2 (H411)
Terpinyl acetate	8007-35-0 201-265-7	0.65	Aquatic Chronic 2 (H411)
Artemisia vulgaris oil (mugwort)	84775-45-1 284-503-2	0.58	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	0.54	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	0.46	Skin Sens. 1B (H317)
alpha-Pinene	80-56-8 201-291-9	0.35	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	0.24	Skin Irrit. 2 (H315), Skin Sens. 1B (H317), Aquatic Chronic 2 (H411)
Linalyl acetate	115-95-7 204-116-4	0.21	Skin Irrit. 2 (H315), Skin Sens. 1B (H317), Eye Irrit. 2 (H319)
2-tert-Butylcyclohexyl acetate	88-41-5 201-828-7	0.14	Aquatic Chronic 2 (H411)
2-Methylundecanal	110-41-8 203-765-0	0.11	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	0.06	Aquatic Chronic 1 (H410), Eye Irrit. 2 (H319); M = 1 (acute/chronic)
beta-Methyl-3-(1-methylethyl)benzenepropanal	125109-85-5 412-050-4	0.06	Aquatic Chronic 2 (H411)
Citronellol (3,7-dimethyl-6-octen-1-ol)	106-22-9 203-375-0	0.0375	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	0.025	Aquatic Chronic 3 (H412)
Hexyl cinnamic aldehyde	101-86-0 202-983-3	0.02	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	0.02	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	0.01	Acute Tox. 4 (oral) (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410); M = 1 (acute/chronic)
Augeo Clean Multi	100-79-8	75	Eye Irrit. 2 (H319) — not an inert base

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	May cause an allergic skin reaction. Causes serious eye irritation.
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	Absorb with inert material (sand, vermiculite, diatomaceous earth). 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 gloves and eye protection when filling diffusers. 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. Keep upright. Storage class (TRGS 510): 10 — Combustible liquids.

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). Mandatory — mixture is H319. Eyewash station recommended.
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	Liquid
Colour	Colourless to pale yellow
Odour	Characteristic — pine needle, fir, peppermint, eucalyptus, cedarwood
pH	Not applicable
Flash point	≈ 64–91 °C (estimated; Augeo Clean Multi ≈ 91 °C closed cup; pure fragrance 64 °C) — not flammable within the meaning of CLP (> 60 °C)
Density	≈ 1.03 g/cm ³ at 20 °C (estimated; Augeo ≈ 1.06)
Solubility	Partly miscible with water (Augeo); fragrance practically insoluble

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 25% 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 ≈ 9,259 mg/kg — not classified.
Skin irritation	Not classified.
Eye irritation	Eye Irrit. 2 — H319 (Augeo Clean Multi).
Skin sensitisation	Skin Sens. 1 — H317 (cornmint extract at 2.13% and other sensitisers ≥ 1%).
CMR, STOT, aspiration	Not classified.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Aquatic toxicity (at 25%): Aquatic Chronic 2 — H411. 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 HP4 (irritant — Augeo H319), HP13 (sensitising) and 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

At 25% the mixture is Aquatic Chronic 2 and is therefore an environmentally hazardous substance for transport (ADR 2.2.9.1.10).

UN number	UN 3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mentha arvensis extract, Citrus limon)
Class / packing group	9 / III
Environmental hazard	Yes — marine pollutant
Small-package exemption	ADR/RID special provision 375, IMDG 2.10.2.7 and IATA A197: single or inner packagings ≤ 5 L net are NOT subject to the dangerous-goods regulations. Finished reed diffusers shipped in normal retail packaging are covered by this exemption.

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): REQUIRED — the mixture is classified for health hazards (H317, H319). A UFI specific to this mixture is needed before placing on the market; the UFI of the pure fragrance (X200-UOCW-600R-QEM6) can be declared as a component (MIM).

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 reed diffusers (Category 10A) = 9.82% of pure fragrance = max. 39.28% of this 25% preparation. A reed diffuser at 25% fragrance does NOT comply with IFRA — dilute this preparation to ≤ 39.28% of the diffuser liquid (≤ 9.82% fragrance). See IFRA certificate.

Chemical safety assessment: not carried out for the mixture.

SECTION 16: OTHER INFORMATION

Date of preparation: October 2026 — 25% 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.

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 Augeo Clean Multi is used, the classification must be recalculated.

ANNEX — CALCULATION RECORD (25%)

Method: each component % in the supplier's SDS × 0.25; summation/additivity rules of CLP Annex I; generic concentration limits (no SCLs declared by the supplier); for skin/eye irritation only components ≥ 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. Augeo Clean Multi (75%) taken with its own classification (Eye Irrit. 2).

Hazard class	Fragrance 100% (supplier)	Calculation at 25% / threshold	Result at 25%
Acute toxicity (oral)	Not classified (ATE 2,325.6)	ATE = 100 / (5.4 / 500) ≈ 9,259 mg/kg / ≤ 2000	Not classified
Skin irritation	Skin Irrit. 2 — H315	Σ Skin Irrit. 2 (≥ 1%) + 10 × Skin Corr. 1C (≥ 1%) = 6.97% / ≥ 10%	Not classified



Eye irritation	Eye Irrit. 2 — H319	Σ Eye Irrit. 2 ($\geq 1\%$) = 80.7% (incl. Augeo 75%) / $\geq 10\%$	Eye Irrit. 2 — H319
Skin sensitisation	Skin Sens. 1 — H317	Cornmint extract 2.13%; 4-tert-butylcyclohexyl acetate 1.71%; lemon oil 1.5%; linalool 1.14% / $\geq 1\%$ (classify) · $\geq 0.1\%$ (EUH208)	Skin Sens. 1 — H317
Aspiration	Asp. Tox. 1 — H304	Σ Asp. Tox. 1 = 4.71% / $\geq 10\%$	Not classified
STOT SE	Not classified	STOT SE 2 (Artemisia oil) = 0.58% / $\geq 10\%$	Not classified
Aquatic acute	Not classified	$\Sigma M \times \text{Acute } 1 = 2.01\%$ / $\geq 25\%$	Not classified
Aquatic chronic	Aquatic Chronic 2 — H411	C1: 2.05% / $\geq 25\%$ C2: $10 \times 2.05 + 5.96 = 26.46\%$ / $\geq 25\%$ C3: $100 \times 2.05 + 10 \times 5.96 + 0.025 = 264.6\%$ / $\geq 25\%$	Aquatic Chronic 2 — H411
Physical hazards	Not classified (FP 64 °C)	FP > 60 °C	Not classified

Conclusion: H319, H317, H411 (GHS07 + GHS09, Warning).