



SAFETY DATA SHEET

FIERCE — 5% preparation in a non-hazardous base

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

△ **NOTE:** This document applies to the final mixture containing 5% of the fragrance FIERCE and 95% non-hazardous base. The classification is based on the manufacturer's SDS for the fragrance at this dilution in a non-hazardous base (CLP calculation method, Regulation (EC) No 1272/2008, Annex I).

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

1.1 Product identifier

Product form	Mixture
Trade name	Preparation with FIERCE at 5%
UFI (pure fragrance)	KE00-V04G-E00T-C9YM
Type of product	Perfumes, fragrances
Base	Non-hazardous, non-classified base — 95%

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

Identified uses	Air-care products in a non-hazardous base: reed diffusers, room sprays and other non-cosmetic applications.
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

Result	MIXTURE CLASSIFIED AS HAZARDOUS — H412
Aquatic hazard, chronic	Aquatic Chronic 3 — H412. $10 \times M \times \Sigma \text{Chronic 1} + \Sigma \text{Chronic 2} = 12.8\% (\geq 25\% \rightarrow \text{Chronic 2}); 100 \times M \times \Sigma \text{Chronic 1} + 10 \times \Sigma \text{Chronic 2} + \Sigma \text{Chronic 3} = 127.7\%$.
Aquatic hazard, acute	Not classified — $\Sigma \text{Acute 1} = 1.30\%$ (limit: 25%).
Skin sensitisation	Not classified — highest sensitiser acetyl cedrene $0.385\% < 1\%$. EUH208 applies.
Eye irritation	Not classified — $\Sigma \text{Eye Irrit. 2} = 0.675\%$ (limit: 10%).
Skin irritation	Not classified — $\Sigma \text{Skin Irrit. 2} = 1.20\%$ (limit: 10%).
Aspiration hazard	Not classified — $\Sigma \text{Asp. Tox. 1} = 0.645\%$ (limit: 10%).
Acute toxicity (oral)	Not classified — mixture ATE $\approx 625\,000 \text{ mg/kg}$ (limit: 2000 mg/kg).
Notes	The pure fragrance (100%) is classified H304, H315, H317, H319, H400 and H410 (DANGER). See Annex — Calculation record.



2.2 Label elements

Hazard pictograms	None	
Signal word	None (no pictogram)	
Hazard statements	H412	Harmful to aquatic life with long lasting effects.
Supplemental information	EUH208	Contains Acetyl cedrene, Linalyl acetate, Mandarin oil, Linalool, 2-(2,2,7,7-Tetramethyltricyclo[6.2.1.0(1,6)]undec-5(4)-en-5-yl)propan-1-ol, beta-Pinene, Limonene, Geranyl acetate, Sweet orange oil, 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde, 1-(5,5-Dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one, 3-(4-Isopropylphenyl)-2-methylpropanal, Bourgeonal, 2,6,10-Trimethylundec-9-enal. May produce an allergic reaction.
Precautionary statements	P101 P102 P273 P501	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Avoid release to the environment. 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 — concentrations refer to the FINAL mixture at 5% (manufacturer values $\times 0.05$):

Name	Identifiers	%	Classification (EC) No 1272/2008
Acetyl cedrene (Lixetone)	CAS 32388-55-9 EC 251-020-3 REACH 01-2119969651-28	0.385	Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Oxacyclohexadecen-2-one	CAS 34902-57-3 / 111879-80-2 REACH 01-0000016883-62	0.370	Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Linalyl acetate	CAS 115-95-7 EC 204-116-4 REACH 01-2119454789-19	0.350	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319
Mandarin oil (Citrus reticulata)	CAS 8008-31-9 EC 284-521-0 REACH: exempt (< 1 t/y)	0.330	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Patchouli oil (Pogostemon cablin)	CAS 8014-09-3 / 84238-39-1 EC 282-493-4 REACH 01-2119967775-18	0.250	Asp. Tox. 1, H304
Linalool	CAS 78-70-6 EC 201-134-4 REACH 01-2119474016-42	0.215	Skin Sens. 1B, H317
Dihydromyrcenol (2,6-dimethyloct-7-en-2-ol)	CAS 18479-58-8 EC 242-362-4 REACH 01-2119457274-37	0.205	Skin Irrit. 2, H315; STOT SE 3, H336; Eye Irrit. 2, H319



Name	Identifiers	%	Classification (EC) No 1272/2008
2-(2,2,7,7-Tetramethyltricyclo[6.2.1.0(1,6)]undec-5(4)-en-5-yl)propan-1-ol, 50% in glycol ether	CAS 929625-08-1 EC 482-030-8	0.110	Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317
2-tert-Butylcyclohexyl acetate	CAS 88-41-5 EC 201-828-7 REACH 01-2119970713-33	0.100	Aquatic Chronic 2, H411
Heliotropin (1,3-benzodioxole-5-carbaldehyde)	CAS 120-57-0 EC 204-409-7 REACH 01-2119983608-21	0.095	Skin Sens. 1B, H317; Repr. 2, H361fd
Magnolol	CAS 27606-09-3 EC 248-561-2 REACH 01-2120234292-65	0.080	Acute Tox. 4 (oral), H302
3,7-Dimethyl-1,6-nonadien-3-ol (cis & trans)	CAS 10339-55-6 EC 233-732-6	0.075	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319
Oxacycloheptadec-10-en-2-one	CAS 63286-42-0 / 28645-51-4 REACH 01-2120103324-74	0.075	Skin Sens. 1B, H317; Aquatic Acute 1, H400 (M = 1)
Pentadecan-15-olide	CAS 106-02-5 EC 203-354-6 REACH 01-2119987323-31	0.050	Aquatic Chronic 2, H411
Citronellol	CAS 106-22-9 EC 203-375-0 REACH 01-2119453995-23	0.045	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319
beta-Pinene	CAS 127-91-3 EC 204-872-5	0.040	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Aquatic Chronic 1, H410; Skin Sens. 1, H317
Methyl atrarate (methyl 2,4-dihydroxy-3,6-dimethylbenzoate)	CAS 4707-47-5 EC 225-193-0 REACH 01-2120762759-36	0.040	Skin Sens. 1B, H317
Limonene (p-mentha-1,8-diene)	CAS 68647-72-3 / 8028-48-6 EC 232-433-8 REACH 01-2119493353-35	0.020	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317
2,2,6-Trimethyl-alpha-propylcyclohexanepropanol	CAS 70788-30-6 EC 274-892-7 REACH 01-2120768938-30	0.015	Skin Sens. 1B, H317
Geranyl acetate	CAS 105-87-3 EC 203-341-5 REACH 01-2119973480-35	0.010	Skin Irrit. 2, H315; Aquatic Chronic 3, H412; Skin Sens. 1, H317
Hexamethylindanopyran (HHCB)	CAS 1222-05-5 EC 214-946-9 REACH 01-2119488227-29	0.005	Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Sweet orange oil (Citrus aurantium dulcis)	CAS 8028-48-6 / 8008-57-9 EC 232-433-8 REACH 01-2119493353-35	0.005	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Aquatic Chronic 2, H411; Skin Sens. 1, H317
Neryl acetate	CAS 141-12-8 EC 205-459-2 REACH 01-2120748334-54	0.005	Skin Sens. 1B, H317
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	CAS 68039-49-6 EC 268-264-1 REACH 01-2119982384-28	0.005	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 2, H411



Name	Identifiers	%	Classification (EC) No 1272/2008
1-(5,5-Dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one, in dipropylene glycol	CAS 56973-85-4 EC 260-486-7 REACH 01-2120739840-52	0.005	Skin Sens. 1B, H317; Aquatic Chronic 2, H411
Citral	CAS 5392-40-5 EC 226-394-6 REACH 01-2119462829-23	0.005	Skin Irrit. 2, H315; Skin Sens. 1, H317

Full text of H-statements: see Section 16. Components present below the manufacturer's reporting threshold are not listed.

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	None expected at this dilution. May produce an allergic reaction in sensitised persons.
Medical attention	Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media	Foam, dry chemical powder, carbon dioxide (CO ₂).
Unsuitable extinguishing media	Water jet; fine water spray (fog).
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 chemical safety goggles. Ensure ventilation. Remove ignition sources.
Environmental precautions	Prevent entry into drains, watercourses or soil.
Containment and cleaning up	Absorb with inert, non-combustible 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	Citral (CAS 5392-40-5): long-term exposure limit (8-h TWA) 5 ppm, as reported by the manufacturer. DNEL/PNEC: not available for the mixture.
Engineering controls	Adequate general ventilation; local exhaust for heated or large-scale operations. Eyewash and safety shower 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
Odour	Characteristic — fresh aromatic-woody
Flash point	> 61 °C (manufacturer, closed cup); depends on the base used
Other properties	Depend on the base used; not determined.

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 ≈ 625 000 mg/kg)
Skin irritation	Not classified
Eye irritation	Not classified
Skin sensitisation	Not classified (EUH208)
Aspiration hazard	Not classified
Mutagenicity, carcinogenicity, reproductive toxicity, STOT	Not classified (heliotropin, Repr. 2, and dihydromyrcenol, STOT SE 3, are below the generic concentration limits).

SECTION 12: Ecological information

12.1 Toxicity	Aquatic Chronic 3 — H412. Main contributors: acetyl cedrene (Lixetone), macrocyclic musks (oxacyclohexadecen-2-one), mandarin oil and ambery woody alcohols.
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)	HP14
Contaminated packaging	Empty completely; do not reuse; dispose of as unused product.

SECTION 14: Transport information

ADR / RID / IMDG / IATA	Not classified as dangerous goods at 5% — Aquatic Chronic 3 is not regulated for transport (manufacturer: "Non Hazardous"). The pure fragrance (100%) is UN 3082, Class 9, PG III.
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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.
PCN / UFI	Not mandatory — the mixture is classified only for an environmental hazard.
IFRA (50th)	Candles and wax melts (Cat. 12), reed diffusers (Cat. 10A), room sprays (Cat. 10B) and fine fragrance (Cat. 4): no restriction. Not approved for Cat. 1 (lip) and Cat. 6 (oral). See IFRA certificate.

SECTION 16: Other information

Revision	Version 1.0 — Eco Candle Project edition, 05/10/2026. Based on the manufacturer's SDS (100%, 5%, 10% and 25%, version 1, 24/03/2026, issued 13/04/2026), allergen declaration (13/09/2023) and IFRA 50th Amendment certificate (13/09/2023).
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Abbreviations	ATE = Acute Toxicity Estimate; UFI = Unique Formula Identifier; PCN = Poison Centre Notification; HHCB = hexamethylindanopyran; SVHC = Substance of Very High Concern; STOT SE = Specific target organ toxicity, single exposure.
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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. · **H319** Causes serious eye irritation. · **H336** May cause drowsiness or dizziness. · **H361fd** Suspected of damaging fertility. 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.

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. If another base is used, the classification must be recalculated.

ANNEX — Calculation record (5%)			
Hazard class	Fragrance 100%	Calculation at 5% / limit	Result at 5%
Acute toxicity (oral)	Not classified	ATE $\approx$ 625 000 mg/kg / $\leq$ 2000	Not classified
Aspiration hazard	Asp. Tox. 1	$\Sigma = 0.645\% / \geq 10\%$	Not classified
Skin irritation	Skin Irrit. 2	$\Sigma = 1.20\% / \geq 10\%$	Not classified
Eye irritation	Eye Irrit. 2	$\Sigma = 0.675\% / \geq 10\%$	Not classified
Skin sensitisation	Skin Sens. 1	acetyl cedrene 0.385% / $\geq 1\%$	Not classified (EUH208)
Aquatic acute	Aquatic Acute 1	$\Sigma = 1.30\% / \geq 25\%$	Not classified
Aquatic chronic	Aquatic Chronic 1	C2: 12.8%; C3: 127.7% / $\geq 25\%$	Aquatic Chronic 3 — H412
Physical hazards	Not classified (FP > 61 °C)	FP > 60 °C	Not classified

The results match the manufacturer's SDS for the same dilution (non-hazardous base).