

Representative last analysis (others visible online)

Echantillon enregistré le 30 juillet 2018
Dossier : 2018-A094

10 août 2018

Rapport d'essai

Référence échantillon Client : Huile essentielle d'Immortelle NV04

Conditions chromatographiques :

GCMS Shimadzu QP2010S

Chromatographie sur colonne apolaire : SLB-5ms, 30m 0.25mm 0.25µm

0,3 µl - Split 1/50 – He 1,0 ml/mn- Gradient : 60°C (5mn) → 3°C/mn → 270°C (30 mn)

Calculs selon le procédé de normalisation

Composants de l'échantillon N281 déterminés sur colonne apolaire			Composants de l'échantillon N281 déterminés sur colonne apolaire				
	t_R (mn)	%		t_R (mn)	%		
1	Isononane	5,21	0,21	41	Italicène	30,26	2,40
2	Trans-2-Hexène-1-ol	5,30	0,04	42	Cis-Alpha-Bergamotène	30,60	0,52
3	1-Hexanol	5,40	0,11	43	Béta-Caryophyllène	30,88	0,24
4	Nonane	6,36	0,03	44	Italidione I M210	31,46	3,59
5	Alpha-Pinène	7,69	1,87	45	Propanoate de néryle	32,13	5,38
6	Alpha-Fenchène	8,30	0,34	46	(E)-Béta-Farnésène	32,33	0,23
7	Camphène	8,37	0,12	47	Alpha-Humulène	32,46	0,06
8	Béta-Pinène	9,57	0,61	48	Alpha-Acoradiène	32,84	0,22
9	Béta-Myrcène	10,08	0,19	49	Béta-Acoradiène	32,99	0,25
10	Alpha-Terpinène	11,38	0,14	50	Italidione II M224 (Stéréoisomère)	33,27	1,59
11	Para-Cymène	11,74	0,39	51	Gamma-Curcumène	33,44	10,50
12	Limonène	11,98	4,52	52	Alpha-Curcumène	33,55	3,32
13	1,8-Cinéole	12,13	0,37	53	Béta-Trans-Bergamotène	33,71	0,36
14	Trans-Béta-Ocimène	12,82	0,14	54	Béta-Sélinène	33,94	0,12
15	Angélate d'isobutyle	12,99	0,14	55	Alpha-Zingibérène + Alpha-Sélinène	34,15	0,08
16	Gamma-Terpinène	13,40	0,46	56	Italidione II M224 (Stéréoisomère)	34,56	0,55
17	Alpha-Terpinolène	14,76	0,13	57	Béta-Bisabolène + Béta-Curcumène	34,78	0,46
18	2-Nonanone	15,05	0,30	58	Delta-Cadinène	35,18	0,05
19	2,4-Diméthyle-3,5-Heptanedione	15,09	0,16	59	Béta-Sesquiphéllandréne	35,37	0,03
20	Linalol	15,50	2,10	60	Trans-Gamma-Bisabolène	35,51	0,06
21	Valérate d'amyle	15,65	0,17	61	Tiglate de phénéthyle	35,84	0,14
22	Nonanalaldéhyde	15,75	0,09	62	Trans-Alpha-Bisabolène	36,07	0,09
23	Fenchol	16,47	0,05	63	Nérolidol	36,89	0,07
24	Angélate de 2-Méthyle-Butyle	17,88	0,04	64	Italidione III M238 (Stéréoisomère)	37,09	0,59
25	Angélate d'isoamyle	18,10	0,95	65	Italidione III M238 (Stéréoisomère)	37,29	0,89
26	Bornéol	19,15	0,06	66	Isovalérate de néryle	37,62	0,59
27	4,6-Diméthyl-octane-3,5-Dione + 1-Terpinène-4-ol	19,56	1,30	67	Guaïol	38,42	0,76
28	Alpha-Terpinéol	20,30	0,40	68	Rosifoliol	39,07	1,99
29	Décanaldéhyde	20,85	0,02	69	Tiglate de néryle	39,23	0,20
30	Nérol	21,81	5,50	70	10-Epi-Gamma-Eudesmol	39,45	0,05
31	Néral	22,44	0,08	71	Gamma-Eudesmol	39,83	0,29
32	Géranïol	23,03	0,24	72	Béta-Eudesmol + Alpha-Eudesmol	40,74	1,14
33	Géranial	23,89	0,10	73	Bulnésol	41,14	0,20
34	Angélate d'hexyle	24,61	0,03	74	Alpha-Bisabolol + Tiglate de géranyle	41,89	0,15
35	2-Undécanone	25,05	0,17	75	Phytone	47,57	0,04
36	Tridécanone	25,41	0,07	76	n-Nonadécane	49,65	0,07
37	Acétate de néryle	28,20	34,76	77	n-Heneicosane	56,22	0,02
38	Acide décanoïque	28,51	0,13	78	n-Tricosane	62,24	0,01
39	Isoitalicène	28,96	0,72				
40	n-Tétradécane	30,03	0,05				
					% des intégrations des composants identifiés sur la totalité des intégrations du chromatogramme		94,59

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MATERIAL SAFETY DATA SHEET

HELICHRYSUM ITALICUM E.O

1. Chemical Product and Company Identification

Commercial Name: HELICHRYSUM ITALICUM

Origin : Plants from Corsica (distilled in France for Treadshire Ltd)

Plant part : Aeral Buds

INCI Name : *HELICHRYSUM ITALICUM*

CE Number: 33301 29 91 00

Company:

TREADSHIRE LIMITED

170 MARLOWES HERTS

HP1 1BA HEMEL HEMPSTEAD

HERTS UK



2. Composition Information

Main ingredients: HELICHRYSUM ITALICUM ESSENTIAL OIL

- **Alpha pinene:** CAS #: 80-56-8, N, Xn, R43, R50/53, R65 <2%
- **D-Limonene:** CAS #: 5989-27-5, N, Xi, R10, R38, R43, R50/53, <5%
- **Nerol:** CAS #: 106-25-2, Xi, R38, <6%
- **Cineol 1,8 (Eucalyptol):** CAS #: 470-82-6, R10, <3%
- **Gamma Terpinene:** CAS #: 99-85-4, Xn, R65, < 1%
- **Linalol:** CAS #: 78-70-6, Xi, R38, < 3%
- **Beta Pinene:** CAS #: 127-91-3, N, Xn, R43, R50/53, R65, < 1%

Allergens (according to Cosmetic

Directive 2003/15/EC):

D-Limonene (<5%), Linalol (<3%)

Substances with Limit Values for

Professional Exposure:

Not regulated

Toxicological Data: LD50 Oral [Rat]: >5,000 mg/kg

LD50 Dermal [Rabbit]: > 3,000 mg/kg

CAS TSCA #: 8023-95-8

CAS EINECS #: 90045-56-0

EINECS (EC) #: 289-918-2

CoE #: 225n

Hazardous Components: according to IATA and ICAO (Annex 18) Regulations, it is proven not to be a danger for air transport.

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3. Hazards Identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS08

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

Acute Tox. 4 - H302 Harmful if swallowed.
Skin Irrit. 2 - H315 Causes skin irritation.
Skin Sens. 1 - H317 May cause an allergic skin reaction.



GHS09

Aquatic Acute 1 - H400 Very toxic to aquatic life.
Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

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• Classification according to Directive 67/548/EEC or Directive 1999/45/EC



R 10

Flammable.

R 38

Irritating to skin.

R 43

May cause sensitisation by skin contact.

R 50/53

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65

Harmful: may cause lung damage if swallowed.



Always consult your doctor / Dermatologist before using Helichrysum Italicum or any other Essential oil

• Information concerning particular hazards for human and environment:

R 10 Flammable.

R 38 Irritating to skin.

R 43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

• GHS label elements

H304 May be fatal if swallowed and enters airways.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

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• Prevention :

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P403+P235 Store in a well-ventilated place. Keep cool.

P501a Dispose of contents/container in accordance with local/regional/national/international regulations.

4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15minutes. Get medical attention.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

5. Fire and Explosion Data

Flammability of the Product: Combustible.

Auto-Ignition Temperature: Not available.

Flash Points: 69 DG Celcius

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

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LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: When heated to decomposition it emits acrid smoke and irritating fumes.

Special Remarks on Explosion Hazards: Not available.

6. Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill: Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Sensitive to light. Store in light-resistant containers.

8. Exposure Controls/Personal Protection

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection: Splash goggles. Lab coat.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

9. Physical and Chemical Properties

Physical State: Liquid

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Color: Clear, pale yellow

Odor: Characteristic, aromatic

Density: 0.880 to 0.920

Refractive Index @ 20°C : 1.460-1.475

Optical Rotation @ 20°C : -20 ° - +10 °

Viscosity: Not Available

Auto Ignition Temperature: Not Available

Flash Point: >61°C

Boiling Point: Not determined

Melting Point: N/A

Solubility in Water: Insoluble

10. Stability and Reactivity Data

Stability: Stable under normal conditions of use

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources, incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Sensitive to light.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

11. Toxicological Information

Routes of Entry: Absorbed through skin. eye contact.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Causes eye irritation. May cause loss of corneal epithelium, corneal infiltration, release of pigment into the anterior chamber with deposits on the back of the cornea. Inhalation: May cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation. May affect behavior/central nervous system (mild stimulation followed by depression, twitching, spastic convulsions, ataxia), and respiration (slowed respiration).

Other symptoms may include atrial fibrillation, muscle pain, cooling sensation, burning sensation. Chronic

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Potential Health

Effects: Skin: Prolonged or repeated skin contact may cause allergic dermatitis. Ingestion: Prolonged or repeated ingestion may affect the urinary system and brain.

12. Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

13. Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport Information

Procedures: Store in tightly sealed aluminums or metals bottles in cool, dry Area do not expose to temperatures above 65 Degrees Celsius.

15. Spill ,Leakage ,Disposal Procedures

Small spills wipe up with paper rags and place contaminated.

Items in closed bottles use nonflammable absorbent

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.