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Safety Data Sheet

Organic Turpentine Essential Oil (Pinus pinaster)

1. IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

LABEL NAME : ORGANIC TURPENTINE ESSENTIAL OIL - PORTUGAL

BOTANICAL NAME : Pinus pinaster Solander INCI NAME : TURPENTINE OIL NAME SUPPLIER : NHR Organic Oils

Address: : 24 CHATHAM PLACE, BRIGHTON, BN1 3TN (UK) TEL : (UK) 0845 310 8066, info@nhrorganicoils.com

Use product : Fragrant or/and flavour substance

2. HAZARD IDENTIFICATIONS

| Classification | | Labelling | |
|---|---|------------------|--|
| Class and category of hazard | Hazard | Symbol of danger | References of danger |
| Flam. Liq. 3 (FL3) | H226 | SGH02 | H226 : Flammable liquid and vapour |
| Acute Tox. 4 Skin Sens. 1 (SS 1) Skin Irrit. 2 (SCI 2) Eyes Irrit. 2 Acute Tox. 4 | H30 2 H31 5 H31 7 H319 H332 | SGH07 | H302 :Harmful if swallowed H315: Cause skin irritation H317 : May cause an allergic skin reaction H319: Cause severe eyes irritation H332: Harmful by inhalation |
| Asp. Tox. (AH1) | H304 | SGH08 | H304 : May be fatal if swallowed and enters airway |
| Aquatic chronic 2 (EH C2) | H411 | SGH09 | H411: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| Warnings | | HAZARDS | |

Precaution advises:

P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

| Code : FDS HE Turpentine Bio Portugal EN V1 Date of application : 04/09 |
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P363 Wash contaminated clothing before reuse.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray P333+P313 If irritation or rash occurs: Consulta doctor.

P501 Dispose of contents/container according to regulation in force

P302+P352 If on skin: Wash with plenty of soap and water.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water, shower.

P301+P310 If swallowed: immediately call a poison center a physician.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if the

victim has and if they can be easily removed. Continue rinsing.

P273 Avoid release to the environment.

3. COMPOSITION / INFORMATIONS ON INGREDIENT

CNS, Complex natural substance (100% pure and natural).

CAS TSCA: 8006-64-2 EINECS: 232-350-7 FEMA: 340n CoE: 3089

Hazardeous components:

| Component | Proportions | CAS | EINECS | Classification according to Directive CE 1272/2008 |
|--------------------|-------------|-----------|-----------|--|
| Alpha-Pinène | ≤ 79 % | 80-56-8 | 201-291-9 | H226, H304, H315, H317 |
| Béta-Pinène | ≤ 19 % | 127-91-3 | 204-872-5 | H304, H226, H315, H317 |
| D-Limonène | ≤ 5,0 % | 5989-27-5 | 224-813-5 | H304, H226, H315, H317; H410 |
| Longifolène | ≤ 4,0 % | 475-20-7 | 207-491-2 | H304, H317, H410 |
| Béta-Caryophyllène | ≤ 3,0 % | 87-45-5 | 201-746-1 | H304 |
| Alpha-Terpinéol | ≤ 3,0 % | 98-55-5 | 202-680-6 | H315, H319 |
| Camphène | ≤ 3,0 % | 79-92-5 | 201-234-8 | H228, H319, H410 |
| Myrcène | ≤ 3,0 % | 123-35-3 | 204-622-5 | H304, H319, H226, H315 |

4. FIRST AID MEASURES

Skin contact:

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P332+P313: IF SKIN IRRITATION OR RASH OCCURS: Consult a doctor.

P362 : Remove contaminated clothing and wash before reuse.

Eyes contact:

P351 : Rinse cautiously with water for several minutes

P338 : Remove contact lenses if the victim has and if they can be easily removed.

P337 : If eyes irritation persists, consult a physician.

Ingestion:

P301+P310: IF SWALLOWED: immediately call a poison center or a physician.

P330 : Rinse mouth.

P331 : DO NOT induce vomiting

5. FIREFIGHTING MEASURES

Class : Flammable, Harmful

Products of hazard combustion : In case of fire, harmful gas may be formed such as CO, CO2 Advice : Avoid breathing vapors and fumes. Use a mask if necessary.

| Code: FDS HE Turpentine Bio Portugal EN V1 | Date of application: 04/09/14 | Version 1 | Page :2/4 |
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Extinguishing methods : Carbon dioxide extinguishers or dry (Class ABC) fire extinguisher foam.

Avoid stream of water.

Protective equipment : In case of fire, use a respiratory protective device with an independent air supply.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid all flammable sources. Ventilate premises. Do not smoke Environmental precautions: Avoid contamination of drains, surface water and groundwater.

Methods and material for containment and cleaning up: Large spills should be cleaned with inert absorbent material that will be destroyed in accordance with existing regulations.

7. HANDLING AND STORAGE

7.1 Handling

To avoid splashing into the eyes and mucous membranes and following the arrangement of the workplace and manipulations, wearing glasses and special clothing (gloves...) may be indicated.

It is prohibit smoking in areas where they are handled. Do not heat the perfumery products with a naked flame or expose their vapors to a flame or other sources of ignition (eg electrical equipment).

Do not abundantly breathe vapors.

Get quickly rid of sponges, etc. .., used to absorb perfumery products: this will be done by incineration because we know cases of auto-oxidation with spontaneous combustion of some of these products.

Large spillages should be contained with sand or inert powder.

For incorporation into the final product, the products must be kept at relatively low temperatures.

7.2 Storage

It is recommended to store in containers original, closed, or in glass containers, protected from heat, air and light and avoiding too large temperature differences. Do not reuse empty containers.

Perfumery products should under no circumstances be ingested. Keep away from food or drink.

An adequate ventilation is desirable.

8. EXPOSURE CONTROLS/EXPOSAL PROTECTION

To avoid splashing into the eyes and mucous membranes and following the arrangement of the workplace and manipulations, wearing glasses and special clothing (gloves...) may be indicated.

Do not reuse empty containers. Get quickly rid of sponges, etc. .., used to absorb perfumery products.

Health and Safety: comply with the measures and safety practice in the implementation of chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

*Basic informations

Odor : Woody, rising, resinous

Appareance : Mobile liquid

Color : Colorless to light amber

*Other informations (health, security, environment)

pH : N.A. Segregation coefficient (n-octanol/water) : Boiling point : $+150^{\circ}$ C à $+180^{\circ}$ C Viscosity : N.A. Flash point : $+38^{\circ}$ C Vapour density : 4,6 à 4,8 Solubility : Insoluble Evaporation rate :0,4

Solubility in alcohol : Soluble

Vapourpression : 0.535kPa -Lower : 0.8% Density at 20 °C : 0.855 à 0.875 -Upper : 6%

Code: FDS HE Turpentine Bio Portugal EN V1 Date of application: 04/09/14 Version 1 Page: 3/4

Combustive properties: Do not contain no known substance as liable to ignite spontaneously Explosion Hazard: No risk at ambient temperature, to comply with ATEX requirements

Other data:

Refractive index at $20 \,^{\circ}$ C : 1,465 à 1,475 Melting point: N.A. Rotation : -35 $\,^{\circ}$ to -10 $\,^{\circ}$ Auto-ignition: N.A.

10. STABILITY AND REACTIVITY

This product does not present a danger of violent reaction. It is stable in time and does not react with water. Advices: Avoid contact or contamination with strong acids, bases or oxidizing agents.

11. TOXICOLOGICAL INFORMATIONS

No significant effects or critical hazards

Harmful effect by swalloling : DL50 for the rat > 5760 mg/kg

Harmful effect by skin contact : N.A.
Sensitization : N.A.
Irritant effect : N.A.
Phototoxicity : N.A.

Carcinogenicity : No CMR classification according to EC Regulation 1272/2008

Mutagenicity : No CMR classification according to EC Regulation 1272/2008

Reproductive toxicity : No CMR classification according to EC Regulation 1272/2008

IFRA restrictions: This material and / or some of its components are covered by the Code of Practice IFRA (website: www.ifraorg.org)

Other information: Handle this product with all the precautions because of given unpredictable synergy effects on sensitive people.

12. ECOLOGICAL INFORMATIONS



Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Daphnies toxicity (CE50) : N.A.

Mobility : low mobility in soil

Persistance and degradability : N.A.

Bioaccumulation potential : No consequence to our knowledge

Other critical effects : No other critical effects to ourknowledge

Precautions : Avoid releases to the environment (surface water, sewers, groundwater and water in the air and the natural environment).

Follow national and regional regulations

Water hazard class

Results of PBT and vPvB assessment PBT : Not applicable. VPvB: Not applicable
Other adverse effects : No further relevant information available.

13. DISPOSAL CONSIDERATIONS

To avoid releasing to the environment. Disposal must be made according to official regulations.

Releasing to the air : to avoid Releasing in the water : to avoid Releasing in the natural environment : to avoid

| Code . FD3 HE Tulpelitile bio Foltugal EN VI Date of application . 04/03/14 Version I | Code : FDS HE Tu | Turpentine Bio Portugal EN V1 | Date of application: 04/09/14 | Version 1 | Page :4/4 |
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Wastes disposal : incineration
Treatment of empty continers : avoid reuse

May be subject to special treatment, for example, incineration station, if local official regulations are followed.

14. TRANSPORT INFORMATIONS

Comply with the international regulations of dangerous goods.

Customs rate code: 3301 29 41 00



Land transport: Type ADR/RID Class 3 UN 1299 Packing group.III

Expedition name: ESSENCE DE TEREBENTHINE / TURPENTINE



Maritime transport: Type IMDG Class 3 UN 1299 Packing group.III

Expedition name: TURPENTINE

Marine Pollutant: Yes



Aerial transport : Type ICAO/IATA Class 3 UN 1299 Packing group.III

Expedition name: TURPENTINE

15. REGULATORY INFORMATIONS

Labeling : Classification according to the (CE) n°1272/2008 regulation

16. OTHER INFORMATIONS

The information contained in this safety data sheet is based on the level of our knowledge with regard to the product in question on the date shown. It is given on good faith.

In addition, we must point out to users the risks which may arise if a product is used for purposes other than those for which it is intended.

In any event, the user still has an obligation to be aware of and to apply all the texts governing his activity and shall take, under his own responsibility, all the necessary precautions associated with the use he makes of the product.

Code: FDS HE Turpentine Bio Portugal EN V1 Date of application: 04/09/14 Version 1 Page: 5/4