

**MATERIAL SAFETY DATA SHEET**  
**ACCORDING TO EC LEGISLATION 91/155/EEC**

**1. Chemical Product and Company Identification:**

Commercial name:                    **Essential oil of Ciste**

Botanical nomenclature of raw material:    Species: *Cistus ladaniferus*

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**2. Composition / Information on ingredients:**

Chemical identification:            Essential oil obtained by water-and-steam-distillation of the Ciste without any additives. Main components alpha pinène, camphene, borneol, cineole, terpinene

INCI name:                            Cistus ladaniferus L

CAS number:                        8016-26-0

EINECS number:                    289-711-7

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**3. Potential Hazards:**

Principle hazards:                    Flammable liquid.

Physico-chemical hazards:        None identified.

Unusual Fire and Explosion Hazards: None. Material is not pyrophoric, does not react with water, is not an oxygen donor, the material is shock stable.

Identification of specific hazards for humans:

Inhalation: None identified.

Skin: Concentrated liquid and vapours irritating to skin by prolonged exposure.

Eyes: Irritating to eyes with possible damage.

Ingestion: Harmful if swallowed.

Environmental hazards: None identified.

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**4. First Aid Measures:**

Inhalation: If discomfort is felt, remove person to a well ventilated area with plenty of fresh air. If discomfort persists, seek medical advice.

Skin: Remove contaminated clothing and wash affected area with plenty of soap and water. If discomfort persists, seek medical advice.

Eyes: Flush immediately with plenty of cool water for 10 to 20 minutes. Seek medical advice from a Medical Doctor.

Ingestion: Do not induce vomiting. Seek medical care immediately; show the container; package label, or this safety data sheet.

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**5. Fire-fighting Measures:**

Extinguishing Media: Foam, CO<sub>2</sub>, Dry Chemical.  
Spray extinguishing media directly into base of flames.

Do not use: Water.  
(Unsuitable for use on burning material, but may be used to cool container exposed to heat, to reduce built up pressure due to elevated temperatures.)

Special precautions: Wear positive pressure self-contained breathing apparatus as toxic vapours may be released during fire.

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## **6. Spill and Leak Procedure:**

Individual precautions: Eliminate sources of ignition. Keep area well ventilated and isolate the spill. Avoid inhalation and contact with skin and eyes.

Environmental protection: Prevent the liquid from entering drains, sewers, surface- and groundwater.

Cleaning methods: Soak up spill using sand or inert absorbent. For large spills use pumps. Dispose of according to local regulations.

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## **7. Handling and Storage:**

Storage: Store in a cool, dry and ventilated place away from heat sources and protected from light in tightly closed containers. Keep air contact to a minimum. Avoid uncoated metal containers.

Handling: Apply to good manufacturing and industrial hygiene practices with proper ventilation.

Fire protection: Keep away from sources of heat and ignition.

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## **8. Personal Protection / Exposure Control:**

Respiratory protection: Apply local ventilation where appropriate. Wear breathing apparatus when working in an area of high vapour concentration.

Eye protection: Use goggles.

Skin protection: Avoid skin contact. Use chemically resistant gloves. Wear protective clothing when possibility of contact exists.

General precautions: Do not drink, eat or smoke while handling. Respect good personal and industrial hygiene. Keep out of the

reach of children.

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## 9. Physico-chemical Properties:

|                                   |                           |
|-----------------------------------|---------------------------|
| <u>Appearance:</u>                | Volatile liquid.          |
| <u>Colour:</u>                    | Transparent, pale yellow. |
| <u>Odour:</u>                     | characteristic            |
| <u>Taste:</u>                     | Not determined.           |
| <u>Density at 20°C:</u>           | Not determined.           |
| <u>Optical Rotation at 20 °C:</u> | Not determined.           |
| <u>Refractive index at 20 °C:</u> | Not determined.           |
| <u>Boiling point:</u>             | Not determined.           |
| <u>Flashpoint:</u>                | +44° C                    |
| <u>Autoignition temperature:</u>  | Not determined.           |
| <u>Explosion limits:</u>          | Not determined.           |
| <u>Solubility in water:</u>       | no.                       |

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## 10. Stability and Reactivity:

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|--|---|
| <u>Chemical stability:</u>               | Stable under the conditions of handling and storage described under point 7.          |
| <u>Conditions to avoid:</u>              | Avoid contact with strong acids, alkali or oxidising agents. Not reactive with water. |
| <u>Hazardous decomposition products:</u> | Not available.  |

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## 11. Toxicological Information:

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|------------------------|--|
| <u>Acute Toxicity:</u> | Oral LD <sub>50</sub> : not determined.<br>Dermal LD <sub>50</sub> : not determined. |
| <u>Irritation:</u>     | Not tested.  |
| <u>Sensitisation:</u>  | Not tested.  |
| <u>Phototoxicity:</u>  | No phototoxic reaction reported.   |

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## **12. Eco toxicological information:**

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|-----------------|---|
| <u>General:</u> | Prevent contamination of environment, soil, ground- and surface water. No Eco toxicological parameters are known. Product is biodegradable. |
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## **13. Disposal Method:**

Dispose of according to local regulations.

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#### 14. Transport Information:

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|------------------------|----------------------------|
| <u>UN Number:</u>      | 1169                       |
| <u>Shipping name:</u>  | Extracts, aromatic, liquid |
| <u>Hazard Class:</u>   | 3                          |
| <u>Packing group:</u>  | III                        |
| <u>Air (ATA/ICAO):</u> | 3                          |
| <u>Sea (IMDG):</u>     | 3.3/III                    |
| <u>Rail (RID):</u>     | 3.31C                      |
| <u>Road (ADR):</u>     | 3.31 C                     |

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#### 15. Regulatory Information:

##### Classification Packaging / Labelling (Dir 88/379/EEC):

|                 |  |
|-----------------|--|
| Classification: | Xi: Harmful  |
| Risk-Phrases:   | R10: Flammable<br>R36/38: Irritating to eyes and skin<br>R43: May cause sensitization by skin contact<br>R65: Harmful: may cause lung damage if swallowed                |
| Safety-Phrases: | S24/25: Avoid contact with the skin<br>S37: wear suitable gloves<br>S62 If swallowed do not induce vomiting: seek medical advice immediately and show container or label |

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#### 16. Other Information

**Disclaimer: The information in this material safety data sheet is based upon the properties of the material known to us at the time the data sheet was issued. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. The material safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances under which it is packaged, stored or applied in the workplace. For such a safety assessment we hold no responsibility. This document is not intended for quality assurance purposes.**