

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

## O7370 Clove Oil

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Version: 7

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### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Clove Oil

*Article No.:* O7370

*UFI:* --

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*  
Industrial application

*Uses advised against:*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Interlabshop BV

*Address:* Lage Brink 23, 7317BD Apeldoorn, The Netherlands

*Tel./Fax.:* +3155 521 5016

*Internet:* www.labshop.nl

*EMail:* labshop@labshop.nl

*Importer:* --

#### 1.4. Emergency No.

112 / 088 755 8000 (Mon-Fri 24/7)

*Emergency No.:*

#### 1.4.2 Poison Center:

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation  
(EC) No. 1272/2008 (CLP/GHS)*

H317  
Cat.: 1  
H319  
Cat.: 2  
Skin sensitization, hazard category 1  
Serious eye damage, hazard category 2  
May cause an allergic skin reaction.  
Causes serious eye irritation.

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to Regulation  
(EC) No. 1272/2008 (CLP/GHS)*

*Hazard designation:*



GHS07-1

*Signal word:*

Warning

*Hazard designation:*

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H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

#### *Safety designation:*

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P280 Wear protective gloves/ clothing/ eye/ face protection.

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical attention.

P362+P364 Take off contaminated clothing and wash before reuse.

P501 Dispose of contents/ container according to regional, national and international regulations.

#### *Hazardous components for labelling:*

#### 2.3. Other Hazards

*No information available.*

### 3. Composition/Information on Ingredients

#### 3.1. Substance

#### 3.2. Mixture

##### *Chemical Characterization:*

*Essential oil. CAS-Nr. 84961-50-2; EINECS 284-638-7; REACH Reg. No. 01-2119971802-33-xxxx*

##### *Information on Components / Hazardous Ingredients:*

|                    |           |   |
|--------------------|-----------|---|
| Eugenol (H317-319) | 70 - 95 % | CAS-Nr: 97-53-0<br>EINECS-Nr: 202-589-1<br>EC-Nr: |
|--------------------|-----------|---|

|                               |          |   |
|-------------------------------|----------|---|
| beta-Caryophyllene (H304-317) | 5 - 15 % | CAS-Nr: 87-44-5<br>EINECS-Nr: 201-746<br>EC-Nr: |
|-------------------------------|----------|---|

|                               |          |   |
|-------------------------------|----------|---|
| alpha-Humulene (H315-319-335) | 1 - 10 % | CAS-Nr: 6753-98-6<br>EINECS-Nr:<br>EC-Nr: |
|-------------------------------|----------|---|

|                                 |         |   |
|---------------------------------|---------|---|
| beta-Caryophyllene oxide (H411) | < 0.5 % | CAS-Nr: 1139-30-6<br>EINECS-Nr: 214-519-7<br>EC-Nr: |
|---------------------------------|---------|---|

#### *Additional information:*

### 4. First Aid Measures

#### 4.1. Description of the First Aid Measures

##### *General information:*

*Remove contaminated clothes immediately.*

*In case of an accident or if you feel unwell, seek medical advice immediately (show the label where possible).*

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*After inhalation:*

*Supply fresh air and keep patient calm.*

*Get medical help.*

*In case of unconsciousness place patient stable in side position for transportation.*

*After skin contact:*

*Remove contaminated clothing. Wash off immediately with plenty of water and soap.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes.*

*After ingestion:*

*Rinse mouth with water and drink plenty of water.*

*Do not induce vomiting.*

**4. 2. Most important Symptoms and Effects, both Acute and Delayed**

*Symptoms:*

*No further information available.*

*Effects:*

*No further information available.*

**4. 3. Indication of any Immediate Medical Attention and special Treatment needed**

*Treatment:*

*No further information available.*

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**5. Fire-Fighting Measures**

**5. 1. Extinguishing Media**

*Suitable extinguishing media:*

*Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, dry sand.*

*Unsuitable extinguishing media:*

*Water*

**5. 2. Special Hazards arising from the Substance or Mixture**

*Special hazards:*

*In case of fire: formation of carbon monoxide and dioxide.*

**5. 3. Advice for Firefighters**

*Protective equipment:*

*Wear self-contained respiratory protective device and full protective gear.*

*Further information:*

*Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.*

*Careful when using carbon dioxide in closed areas: carbon dioxide can displace oxygen.*

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**6. Accidental Release Measures**

**6. 1. Personal Precautions, Protective Equipment and Emergency Procedures**

*Personal precautions:*

*Provide adequate ventilation. Keep away from sources of ignition.*

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*Wear protective clothing.*

#### 6. 2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

#### 6. 3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Contain with absorbent material (sand, diatomaceous earth, acid binder, universal absorbent, saw dust) and dispose accordingly.*

#### 6. 4. Reference to other Sections

*See Section 13 for information on disposal.*

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### 7. Handling and Storage

#### 7. 1. Precautions for Safe Handling

*Instructions on safe handling:*

*Avoid contact with eyes.*

*Avoid the formation of aerosol.*

*Hygienic measures:*

*Do not eat or drink during work. Do not smoke.*

#### 7. 2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a cool and well ventilated location.*

*Requirements for storage areas and containers:*

*Store the product in the original container.*

*Keep container tightly closed.*

*Avoid pollution of soil.*

*Information on fire and explosion protection:*

*Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.*

*Do not store together with: foodstuffs and animal feed.*

*Storage class:*

*10; Combustible liquids (TRGS 510)*

*Further Information:*

#### 7. 3. Specific End Use(s)

*Further information:*

*No information available.*

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### 8. Exposure Controls/Personal Protection

#### 8. 1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*TRGS 900*

*Hydrocarbons, aliphatic C6-C14, aromatic C9-C14: 99 - 100 %*

*RCP: 50 mg/m3*

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*Parameters to be controlled:**Derived No-Effect Level (DNEL):**Predicted No-Effect Concentration (PNEC):**Additional Information:***8.2. Exposure Controls***Technical protective measures:**Provide adequate ventilation.**Personal Protection**General protective measures:**Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.**Avoid contact with eyes.**Respiratory protection:**In case of long-term or higher exposure.**Hand protection:**Protective gloves (EN 374)**Protective glove material:**Nitrile rubber (480 min, 0.4 mm)**Eye protection:**Safety glasses with protective shields (EN 166).**Body protection:**Protective clothing.**Environmental precautions:**Do not allow entering sewerage system.*

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**9. Physical and Chemical Properties****9.1. Information on Basic Physical and Chemical Properties***Form:* liquid*Color:* yellowish*Odor:* characteristic*Odor threshold:*  
*no information available**pH-Value:*  
*not determined**Melting temperature:*  
*not available**Boiling temperature:*  
*not available**Flash point:* 117°C*Evaporation rate:*

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*No information available.*

*Flammability (solid, gas):*

*not available*

*Upper explosion limit:*

*no information available*

*Lower explosion limit:*

*no information available*

*Vapor pressure:*

*not available*

*Vapor density:*

*No information available.*

*Density:*

*1.028 - 1.053 g/cm<sup>3</sup>*

*Solubility in water:*

*practically insoluble*

*Auto-ignition temperature:*

*No information available.*

*Decomposition temperature:*

*No data available.*

*Viscosity, dynamic:*

*not available*

*Explosive properties:*

*not available*

*Oxidizing properties:*

*no information available*

*Bulk density:*

*not determined*

#### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

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#### 10. Stability and Reactivity

##### 10.1. Reactivity

*Stable if used according to specifications.*

##### 10.2. Chemical Stability

*Stable if used according to specifications.*

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#### 10.3. Possibility of Hazardous Reactions

*Unknown.*

#### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid heat and sources of ignition.*

*Thermal decomposition:*

*No data available.*

#### 10.5. Incompatible Materials

*Strong oxidizing agents.*

*Acids and bases*

#### 10.6. Hazardous Decomposition Products

*None known.*

#### 10.7. Further Information

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### 11. Toxicological Information

#### 11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

*Acute Toxicity*

*LD50, oral:*

*No information available.*

*LD50, dermal:*

*No information available.*

*LC50, inhalation:*

*No information available.*

*Primary effects*

*Irritant effect on skin:*

*Slight irritant effect.*

*Irritant effect on eyes:*

*Slight irritant effect*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*Slightly sensitizing.*

*Mutagenicity:*

*No relevant data found.*

*Reproductive toxicity:*

*No relevant data found.*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*No information available.*

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#### *Specific target organ toxicity (STOT):*

*Single exposure: Not classified based on available information.*

*Repeated exposure: Not classified based on available information.*

#### *Aspiration hazard*

#### 11. 2. Information on other Hazards

*No further information available.*

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### 12. Ecological Information

#### 12. 1. Aquatic Toxicity

*No information available.*

*Fish toxicity:*

*Daphnia toxicity:*

*Bacteria toxicity:*

*Algae toxicity:*

#### 12. 2. Persistency and Degradability

*No information available.*

#### 12. 3. Bioaccumulation

*No information available.*

#### 12. 4. Mobility

*No information available.*

#### 12. 5. Results of PBT- und vPvP Assessment

*No data available.*

#### 12. 6. Endocrine Disrupting Properties

*No data available.*

#### 12. 7. Other Adverse Effects

*Water hazard class:*

*2 (German Regulation) (Assessment by list): hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*Do not let product enter waterways or sewage system.*

*AOX Value:*

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### 13. Disposal Considerations

#### 13. 1. Waste Treatment Methods

*Product:*

*Disposal in accordance with local regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Dispose of according to official local regulations.*

*Non-contaminated and emptied packaging may be taken for reuse.*

*Waste Code No.:*

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#### 14. Transport Information

##### 14. 1. UN Number

*ADR, IMDG, IATA*

##### 14. 2. UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR / DOT (US) (land transportation).*

*IMDG/IATA:*

*Not hazardous goods*

##### 14. 3. Transport Hazard Classes

*ADR Class:*

*not applicable*

*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

*not applicable*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

##### 14. 4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

##### 14. 5. Environmental Hazards

*None*

##### 14. 6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

##### 14. 7. Maritime Transport in Bulk according to IMO Instruments

*not applicable*

##### 14. 8. Further Information

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#### 15. Regulatory Information

##### 15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*2, hazardous for water (German Regulation)*

*Local regulations on chemical accidents:*

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*Appendix 1: Ingredients not named. Observe quantity thresholds according to hazard categories.*

*Employment restrictions:*

*The employment restrictions for young workers in accordance with the Youth Employment Protection Law are to be observed.*

*The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline are to be observed.*

*Restriction and prohibition of application:*

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 3*

*Industrial Safety Regulation: non flammable liquid*

*Technical instructions on air quality:*

*Appendix 4: Ingredients not listed by name.*

**15. 2.      Chemical Safety Assessment**

*No information available.*

**15. 3.      Further Information**

*Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

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**16.      Other Information**

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*