

# Material Safety Data Sheet

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

# Labshop

Chemicals, Restoration and Art Supplies

## 78710

## Camphor

Page 1

Revised edition: 06.11.2012

Version: 3.0

Printed: 18.05.2016

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

#### 1.1. Product Identifier

Product Name: Camphor

Article No.: 78710

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

Identified uses:

No information available.

Uses advised against:

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

Company: Interlabshop B.V.  
Address: Lage Brink 23, 7317 BD Apeldoorn The Netherlands  
Tel./Fax.: Tel. +3155-5215016  
Internet: www.Labshop.nl  
EMail: labshop@labshop.nl

Importer: --

1.4. Emergency No. --

Emergency No.: --

### 2. Hazards Identification

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

Classification according to EC  
Regulation 1272/2008

Flammable solids, hazard category 2  
Skin irritation, category 2  
Eye irritation, category 2  
Specific Target Organ Toxicity (single exposure), category 3

H228 Flammable solid.

Cat.: 2  
H315 Causes skin irritation.

Cat.: 2  
H319 Causes serious eye irritation.

Cat.: 2  
H335 May cause respiratory irritation.  
Cat.: 3

Classification according to EC  
Regulation No. 67/548 or No. 1999/45

Flammable (F) R11 Highly flammable  
Irritating (Xi) R36 Irritating to eyes.  
Irritating (Xi) R37 Irritating to respiratory system.  
Irritating (Xi) R38 Irritating to skin.

Safety Phrases:

Possible Environmental Effects:

Label Elements

next page: 2

# Material Safety Data Sheet

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

# Labshop

Chemicals, Restoration and Art Supplies

## 78710 Camphor

Page 2

Revised edition: 06.11.2012

Version: 3.0

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2.2.

Classification according to EC Regulation 1272/2008

Hazard designation:



GHS02-1



GHS07

Signal word:

Warning

Hazard designation:

H228	Flammable solid.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P302+P352	If on skin: Wash with soap and water.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P312	Call a poison center or physician if you feel unwell.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

2.3. Other Hazards

### 3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

Natural camphor. Synonym: 1,7,7-Trimethyl-bicyclo[2.2.1]heptane-2-one

Hazardous Ingredients:

Camphor (Bornan-2-one) (H228-315-319-335)	100 %	CAS-Nr: 464-49-3 EINECS-Nr: 207-355-2 EC-Nr:
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# Material Safety Data Sheet

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

# Labshop

Chemicals, Restoration and Art Supplies

## 78710 Camphor

Page 3

Revised edition: 06.11.2012

Version: 3.0

Printed: 18.05.2016

---

*Additional information:*

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### 4. First Aid Measures

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

*General information:*

*Take affected persons out into the fresh air.*

*After inhalation:*

*Supply fresh air.*

*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. In case of discomfort seek medical help.*

*After ingestion:*

*Drink plenty of water. Get medical help in case of discomfort.*

#### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Irritation of eyes, skin and respiratory tract.*

*Effects:*

#### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*Seek medical attention after eye contact and after swallowing.*

---

### 5. Fire-Fighting Measures

#### 5.1. Extinguishing Media

*Suitable extinguishing media:*

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

*Unsuitable extinguishing media:*

#### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Combustible material.*

*Danger of dust explosion.*

*Vapor is heavier than air and spreads along the ground.*

*In case of fire: hazardous gases/vapors may be released.*

#### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear suitable protective clothing.*

*Wear self-contained respiratory protective device.*

*Further information:*

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### 6. Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

next page: 4

# Material Safety Data Sheet

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

# Labshop

Chemicals, Restoration and Art Supplies

## 78710 Camphor

Page 4

Revised edition: 06.11.2012

Version: 3.0

Printed: 18.05.2016

---

*Avoid contact with skin.  
Do not inhale dust. Avoid formation of dust.  
Ensure adequate ventilation.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Do not discharge into drains; risk of explosion!*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Take up mechanically and collect in suitable containers for disposal. Avoid dust formation.*

### 6.4. Reference to other Sections

*For information for safe handling see Section 7.*

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## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Avoid contact with eyes and skin.  
Avoid formation of dust.*

*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 dry room.  
Store at room temperature.*

*Requirements for storage areas and containers:*

*Information on fire and explosion protection:*

*Keep away from sources of ignition.  
Do not store together with: foodstuffs and animal feed.  
Take measures to prevent electrostatic discharge.*

*Storage class (VCI):*

*Further Information:*

*Storage temperature: 5 - 25°C.*

### 7.3. Specific End Use(s)

*Further information:*

---

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*none known*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

next page: 5

**78710 Camphor**

Page 5

Revised edition: 06.11.2012

Version: 3.0

Printed: 18.05.2016

---

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

**8.2. Exposure Controls**

*Technical protective measures:*

*Personal Protection*

*General protective measures:*

*Do not inhale dust. Do not eat, drink or smoke while working.  
Wash hands before breaks and at the end of work.*

*Respiratory protection:*

*Respiratory equipment required in case of insufficient ventilation,  
filter type A.*

*Hand protection:*

*Protective gloves made of natural rubber.*

*Protective glove material:*

*Nitrile rubber (> 480 min, 0.11 mm).*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

*Body protection:*

*Protective clothing, chemical resistant.*

*Environmental precautions:*

---

**9. Physical and Chemical Properties****9.1. Information on Basic Physical and Chemical Properties**

*Form:* solid

*Color:* colorless

*Odor:* characteristic

*Odor threshold:*

*No information available.*

*pH-Value:*

*not applicable*

*Melting temperature:* 175 - 180°C

*Boiling temperature:* 210°C

*Flash point:* 66°C

*Evaporation rate:*

*not applicable*

*Flammability (solid, gas):* 460°C

*Upper explosion limit:* 4.5 Vol. %

*Lower explosion limit:* 0.6 Vol. %

*Vapor pressure:* 0.3 hPa (20°C)

next page: 6

# Material Safety Data Sheet

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

# Labshop

Chemicals, Restoration and Art Supplies

## 78710 Camphor

Page 6

Revised edition: 06.11.2012

Version: 3.0

Printed: 18.05.2016

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*Vapor density:*

*No information available.*

*Density:*

*0.99 g/cm<sup>3</sup> (20°C)*

*Solubility in water:*

*insoluble*

*Coefficient of variation (n-Octanol/Water):*

*3.04*

*Auto-ignition temperature:*

*not applicable*

*Decomposition temperature:*

*not applicable*

*Viscosity, dynamic:*

*not applicable*

*Explosive properties:*

*not available*

*Oxidizing properties:*

*No information available.*

*Bulk density:*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

---

## 10. Stability and Reactivity

### 10.1. Reactivity

*Highly inflammable.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Risk of explosion with strong oxidizing agents, ozone, CrO<sub>3</sub>.  
Exothermic reaction with: potassium permanaganate.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Strong heating.*

*Thermal decomposition:*

### 10.5. Incompatible Materials

*Strong oxidizing agents, ozone, CrO<sub>3</sub>, potassium permanganate.*

next page: 7

# Material Safety Data Sheet

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

# Labshop

Chemicals, Restoration and Art Supplies

## 78710 Camphor

Page 7

Revised edition: 06.11.2012

Version: 3.0

Printed: 18.05.2016

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### 10.6. Hazardous Decomposition Products

*Carbon monoxide and dioxide.*

### 10.7. Further Information

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## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*LD50, oral: > 5000 mg/kg (rat); 1310 mg/kg (mouse)*

*LD50, dermal: No information available.*

*LC50, inhalation: No information available.*

*Primary effects*

*Irritant effect on skin: Slight irritant effect (rabbit).*

*Irritant effect on eyes: Slight irritant effect*

*Inhalation: Irritates the mucous membrane, causes coughing and breathlessness.*

*Ingestion: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.*

*Sensitization: No information available.*

*Mutagenicity: No data available.*

*Reproductive toxicity: No data available.*

*Cancerogenicity: No data available.*

*Teratogenicity: No information available.*

*Specific target organ toxicity (STOT): No data available.*

*Additional toxicological information: Possible effects: Damage of kidneys.*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Fish toxicity:*

*LC50: 35 mg/l (96h, Danio rerio)*

*LC50: 110 mg/l (96h, Pimephales promelas)*

next page: 8

# Material Safety Data Sheet

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

# Labshop

Chemicals, Restoration and Art Supplies

## 78710 Camphor

Page 8

Revised edition: 06.11.2012

Version: 3.0

Printed: 18.05.2016

---

*Daphnia toxicity:*

*No information available.*

*Bacteria toxicity:*

*EC0: 100 - 1000 mg/l*

*Algae toxicity:*

*No information available.*

### 12. 2. Persistency and Degradability

*> 70 %; readily biodegradable*

### 12. 3. Bioaccumulation

*An appreciate bioaccumulation potential is to be expected (log P (o/w) > 3).*

### 12. 4. Mobility

*No information available.*

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

*No data available.*

### 12. 6. Other Adverse Effects

*Water hazard class:*

*Behaviour in sewage systems:*

*Further ecological effects:*

*When used properly, no ecological problems expected.*

*AOX Value:*

*No data available.*

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## 13. Disposal Considerations

### 13. 1. Waste Treatment Methods

*Product:*

*Dispose of according to official national and local regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Packaging may be disposed of in the same manner as the product.*

*Waste Code No.:*

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## 14. Transport Information

### 14. 1. UN Number

*ADR, IMDG, IATA*

*1325*

### 14. 2. UN Proper Shipping Name

*ADR/RID:*

*ENTZÜNDBARER ORGANISCHER FESTER STOFF, N.A.G. (Kampfer)*

*IMDG/IATA:*

*FLAMMABLE SOLIDS, ORGANIC, N.O.S. (Camphor)*

### 14. 3. Transport Hazard Classes

*ADR Class:*

*4.1*

next page: 9



# Material Safety Data Sheet

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

# Labshop

Chemicals, Restoration and Art Supplies

**78710 Camphor**

Page 9

Revised edition: 06.11.2012

Version: 3.0

Printed: 18.05.2016

---

*Hazard no.:* 4.1

*Classification code:* F1

*Tunnel no.:* E

*IMDG Class (sea):* 4.1

*Hazard no.:* 4.1

*EmS No.:* F-A, S-G

*IATA Class:* 4.1

*Hazard no.:* 4.1

**14. 4. Packaging Group**

*ADR/RID:* III

*IMDG:* III

*IATA:* III

**14. 5. Environmental Hazards**

None

**14. 6. Special Precautions for User**

not applicable

**14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code**

**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:*

1, slightly hazardous for water

*Local regulations on chemical accidents:*

*Employment restrictions:*

The employment restrictions for young workers in accordance with the Youth Employment Protection Law (94/33/EC) are to be observed.

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

**15. 2. Chemical Safety Assessment**

No information available.

**15. 3. Further Information**

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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.