

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Printing date 08.09.2010

Revision: 08.09.2010

## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**

- **Trade name:** OIL OF PEPPERMINT, artificial

- **Article number:** 3329

- **Application of the substance / the preparation** Laboratory chemical

- **Manufacturer/Supplier:**

Carl Roth GmbH + Co.KG

Schoemperlenstraße 3-5

76185 Karlsruhe

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149

e-mail: info@carlroth.de

- **Further information obtainable from:** Department Health, Safety and Environment

- **Information in case of emergency:** Poison Centre Munich

Telefon +49/(0)89 19240

## 2 Hazards identification

- **Classification according to European Directives**



Xi Irritant

N Dangerous for the environment

- **Information concerning particular hazards for human and environment:**

R 10 Flammable.

R 38 Irritating to skin.

R 43 May cause sensitisation by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Classification according to Regulation (EC) No 1272/2008**



**Warning**

2.6/3 - Flammable liquid and vapour.



**Warning**

3.2/2 - Causes skin irritation.

3.4/1 - May cause an allergic skin reaction.



4.1/2 - Toxic to aquatic life with long lasting effects.

- **Prevention:**

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

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

Avoid release to the environment.

- **Response:**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

- **Additional information:**

All chemicals are potentially dangerous. They should only be handled by specially trained personnel.

## 3 Composition/information on ingredients

- **Chemical characterization:**

- **CAS No. Description**

68917-18-0 Oil of peppermint terpenes

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- **Identification number(s)**
- **EC Number:** 290-058-5

## 4 First-aid measures

- **General information:**  
First Aider: Pay attention to self-protection!  
Immediately remove any clothing soiled by the product.  
General advice: No induce of vomiting by layman.
- **After inhalation:** Supply fresh air and to be sure call for a doctor.
- **After skin contact:**  
Immediately rinse with water.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for 10 minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse out mouth and drink a glass of water. Do not induce vomiting.  
Seek medical advice immediately and show the container or label.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:**  
Water  
Water with full jet
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

## 6 Accidental release measures

- **Person-related safety precautions:**  
Ensure adequate ventilation  
Keep away from ignition sources.  
Wear protective clothing.  
Do not breathe vapour/spray.  
Avoid contact with the eyes and skin.
- **Measures for environmental protection:**  
Do not allow to enter sewers/ surface or ground water.  
Do not allow to penetrate the ground/soil.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Do not spray on a naked flame or any incandescent material.  
Keep containers, equipment and working place clean.  
Handling corresponding to laboratory safety guidelines.

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- **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- **Further information about storage conditions:** Keep container tightly sealed.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:** Not required.

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.  
Use suitable respiratory protective device only when aerosol or mist is formed.  
Required when vapours/aerosols are generated.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

### 9 Physical and chemical properties

- **General Information**

<b>Form:</b>	Liquid
<b>Colour:</b>	Yellowish
<b>Odour:</b>	Characteristic

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

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- **Flash point:** 46°C
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
- **Density at 20°C:** 0.86 g/cm<sup>3</sup>
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Materials to be avoided:** Strong oxidizing agents.
- **Dangerous reactions** No information available.
- **Dangerous decomposition products:** Carbon monoxide and carbon dioxide

### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
  - Oral LD50 1240 mg/kg (rat)
  - Dermal LD50 5000 mg/kg (rabbit)
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Vapours may cause irritative symptoms.
- **after inhalation:** Vapours may cause irritative symptoms.
- **Sensitization:** Sensitization possible through skin contact.
- **Further information:** The product should be handled with the care usual when dealing with chemicals.
- **Sensitisation** May cause sensitisation by skin contact.

### 12 Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:** Quantitative data on the ecological effect of this product are not available.
- **Remark:**
  - Do not allow to enter waters, waste water, or soil!
  - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  - Toxic for fish
- **Additional ecological information:**
- **General notes:**
  - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  - Do not allow product to reach ground water, water course or sewage system.
  - Danger to drinking water if even small quantities leak into the ground.
  - Also poisonous for fish and plankton in water bodies.
  - Toxic for aquatic organisms

### 13 Disposal considerations

- **Product:**
- **Recommendation**
  - The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal according to official regulations.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1169
- **Packaging group:** III
- **Hazard label:** 3
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 1169 EXTRACTS, AROMATIC, LIQUID (not viscous)
- **Tunnel restriction code:** D1E

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1169
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-D
- **Proper shipping name:** EXTRACTS, AROMATIC, LIQUID (Oil of peppermint terpenes)

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1169
- **Label:** 3
- **Packaging group:** III
- **Proper shipping name:** EXTRACTS, AROMATIC, LIQUID (Oil of peppermint terpenes)
- **UN "Model Regulation":** UN1169, EXTRACTS, AROMATIC, LIQUID, 3, III
- **Environmental hazards:** Environmentally hazardous substance, liquid; Marine Pollutant

### 15 Regulatory information

- **Labelling according to EU guidelines:**  
Classification and labeling have been performed according to EU directive 67/548/EEC / directive 1999/45/EC.

- **Code letter and hazard designation of product:**



Xi Irritant  
N Dangerous for the environment

- **Risk phrases:**
  - 10 Flammable.
  - 38 Irritating to skin.
  - 43 May cause sensitisation by skin contact.

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51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:**

- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe fumes/aerosol.
- 24/25 Avoid contact with skin and eyes.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

**National regulations:**

· **Information about limitation of use:** In dealing with chemicals the national laws must be observed.

· **Waterhazard class:** Water hazard class 2 (Self-assessment); hazardous for water.

### 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.

**Relevant R-phrases**

- May cause sensitisation by skin contact.
- Flammable.
- Irritating to skin.
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Department issuing MSDS:** Department: Health, Safety and Environment

· **Contact:** Herr Dr. Hagel

**Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent