

# Safety data sheet

## according to Regulation (EC) No. 1907/2006

Printing date 28.02.2012

Version number 1

Revision: 28.02.2012

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

- Product identifier

- Trade name: OIL OF CITRONELLA natural

- Article number: 6502

- CAS Number:

91771-61-8

- EC number:

294-954-7

- Registration number

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

- Relevant identified uses of the substance or mixture and uses advised against

- Application of the substance / the preparation Laboratory chemical

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Carl Roth GmbH + Co. KG

Schoemperlenstraße 3-5

76185 Karlsruhe

Germany

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

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

E-Mail: [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

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

- Emergency telephone number: Poison Centre Munich

Telefon +49/(0)89 19240

### 2 Hazards identification

- Classification of the substance or mixture

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

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.

Xi; Irritant

R38-41: Irritating to skin. Risk of serious damage to eyes.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Label elements

- Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

- Hazard pictograms



GHS05



GHS07



GHS08



GHS09

(Contd. on page 2)

GB

# Safety data sheet

## according to Regulation (EC) No. 1907/2006

Printing date 28.02.2012

Version number 1

Revision: 28.02.2012

**Trade name: OIL OF CITRONELLA natural**

(Contd. of page 1)

- **Signal word** Danger
- **Hazard statements**
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H317 May cause an allergic skin reaction.
  - H304 May be fatal if swallowed and enters airways.
  - H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
  - P280 Wear protective gloves and eye protection.
  - P273 Avoid release to the environment.
  - P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 Immediately call a POISON CENTER or doctor/physician.
- **Other hazards**
  - All chemicals are potentially dangerous. They should only be handled by specially trained personnel.
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
  - 91771-61-8 Citronella oil
- **Identification number(s)**
- **EC number:** 294-954-7

### 4 First aid measures

- **Description of first aid measures**
- **General information:** Remove any clothing soiled by the product.
- **After inhalation:**
  - Supply fresh air.
  - Seek medical treatment in case of complaints.
- **After skin contact:**
  - Rinse with warm water.
  - If there is any trouble seek medical help.
- **After eye contact:**
  - Rinse immediately for 15 minutes with plenty of water with the eyelid held wide open. Seek medical advice.
- **After swallowing:**
  - Rinse out mouth and drink a glass of water. Do not induce vomiting.
  - In case of spontaneous vomiting: Risk of aspiration. Pulmonary failure possible.
  - Call for a doctor immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
  - No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.

(Contd. on page 3)

# Safety data sheet

according to Regulation (EC) No. 1907/2006



Printing date 28.02.2012

Version number 1

Revision: 28.02.2012

Trade name: OIL OF CITRONELLA natural

(Contd. of page 2)

- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information** Prevent fire-fighting water from entering surface water or groundwater.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.  
Do not inhale vapours. Avoid contact with the eyes and skin.  
Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:** Do not allow to enter sewers/ground water or penetrate the soil.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).  
Dispose contaminated material as waste according to item 13.  
Clean the affected area carefully.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Keep containers, equipment and working place clean.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Keep at room temperature.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Do not eat, drink or smoke while working.  
Immediately remove all soiled and contaminated clothing.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Required when vapours/aerosols are generated.

(Contd. on page 4)

# Safety data sheet

according to Regulation (EC) No. 1907/2006



Printing date 28.02.2012

Version number 1

Revision: 28.02.2012

Trade name: OIL OF CITRONELLA natural

(Contd. of page 3)

## · Protection of hands:



Protective gloves

## · Material of gloves

Nitrile, thickness &gt;0,3 mm.

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

Value for the permeation: Level ≥ 6

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

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

Form:

Fluid

Colour:

Yellowish

#### · Odour:

Characteristic

#### · Odour threshold:

Not determined.

#### · pH-value:

Not determined.

#### · Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

~220°C

#### · Flash point:

64°C

#### · Flammability (solid, gaseous):

Not applicable.

#### · Ignition temperature:

No information available

#### · Decomposition temperature:

No information available

#### · Self-igniting:

No information available

#### · Danger of explosion:

Product does not present an explosion hazard.

#### · Vapour pressure:

Not determined.

#### · Density at 20°C:

~0.89 g/cm<sup>3</sup>

#### · Relative density

Not determined.

#### · Vapour density

Not determined.

#### · Evaporation rate

Not determined.

(Contd. on page 5)

# Safety data sheet

## according to Regulation (EC) No. 1907/2006

Printing date 28.02.2012

Version number 1

Revision: 28.02.2012

Trade name: OIL OF CITRONELLA natural

(Contd. of page 4)

- |   |  |
|---|--|
| <b>· Solubility in / Miscibility with water:</b>    | Not miscible or difficult to mix.          |
| <b>· Segregation coefficient (n-octanol/water):</b> | Not determined.                            |
| <b>· Viscosity:</b>                                 |  |
| <b>Dynamic:</b>                                     | Not determined.                            |
| <b>· Other information</b>                          | No further relevant information available. |

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Reacts with strong oxidizing agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong oxidizing agents.
- **Hazardous decomposition products:** No information available.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

#### · **LD/LC50 values relevant for classification:**

Oral	LD50	7200 mg/kg (rat)
Dermal	LD50	4700 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:**  
Irritant to skin and mucous membranes.  
Risk of skin sensitization.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **after inhalation:** Vapours may cause irritative symptoms.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:** May cause lung damage if swallowed. Risk of aspiration.
- **Further information:** The product should be handled with the care usual when dealing with chemicals.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** Quantitative data on the ecological effect of this product are not available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 6)

# Safety data sheet

## according to Regulation (EC) No. 1907/2006



Printing date 28.02.2012

Version number 1

Revision: 28.02.2012

Trade name: OIL OF CITRONELLA natural

(Contd. of page 5)

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

This material and its container must be disposed of as hazardous waste.

· **Uncleaned packaging:**

· **Recommendation:** Disposal according to official regulations.

### 14 Transport information

· **UN-Number**

· **ADR, IMDG, IATA**

UN3082

· **UN proper shipping name**

· **ADR**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Citronella oil)

· **IMDG**

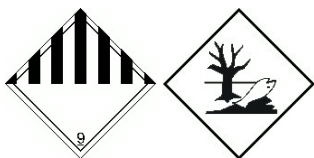
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Citronella oil), MARINE POLLUTANT

· **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Citronella oil)

· **Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **Packing group**

· **ADR, IMDG, IATA**

III

· **Environmental hazards:**

· **Marine pollutant:**

Yes (P)

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special marking (IATA):**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

· **Danger code (Kemler):**

90

· **EMS Number:**

F-A,S-F

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)**

5L

(Contd. on page 7)



# Safety data sheet

## according to Regulation (EC) No. 1907/2006

Printing date 28.02.2012

Version number 1

Revision: 28.02.2012

**Trade name: OIL OF CITRONELLA natural**

(Contd. of page 6)

· <b>Tunnel restriction code</b>	E
· <b>UN "Model Regulation":</b>	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Citronella oil), 9, III

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

- **Department issuing MSDS:** Department: Health, Safety and Environment
- **Contact:** Frau Weckemann
- **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

ICAO: International Civil Aviation Organization

P: Marine Pollutant

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

- **\* Data compared to the previous version altered.**

GB