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

- **Informations to product No. 7130**
- **Product name:**

**Borretschöl, raffiniert**  
Boraginis oleum raffinatum (stabilisiert)  
Borage seed oil

- **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH  
Herderstr. 31  
40721 Hilden  
Tel.: 02103/4994-0  
Fax: 02103/32360  
e-mail: info@caelo.de

- **Emergency telephone:**

Giftinformationszentrum Mainz  
Langenbeckstr. 1, 55131 Mainz  
Tel.: 06131/19240

## 2 Hazards identification

- **Hazards identification:** The substance is not classified as dangerous according to European Union legislation.

## 3 Composition / information on ingredients

- **Chemical characterization:**

**CAS-No. Substance name**

84012-16-8 Borage seed oil

· **EINECS-No.:** 281-661-4


· **REACH Reg. No.:** Von der Registrierungspflicht ausgenommen gem. Anhang 4 / 5 REACH-Verordnung.

· **INCI-Name:** Borago officinalis seed oil

· **General information:** Mixture of triglycerides of different fatty acids.

### Fatty acid composition

- |                               |        |
|-------------------------------|--------|
| ▪ <C16                        | ----   |
| ▪ 16:0 palmitic acid          | 9,66%  |
| ▪ 18:0 stearic acid           | 4,15%  |
| ▪ 18:1 oleic acid             | 15,9%  |
| ▪ 18:2 linoleic acid          | 36,91% |
| ▪ 18:3 linolenic acid (gamma) | 22,86% |
| ▪ 20:1 eicosenoic acid        | 4,74%  |
| ▪ 22:1 erucic acid            | 2,68%  |

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#### 4 First aid measures

- **After inhalation:** Fresh air. If irritation of respiratory ways continues, seek medical advice.
- **after skin contact:** Wash away with water and soap. If product is hot: symptomatic treatment.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** If feeling unwell continuously seek medical advice.

#### 5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible, but not flammable. In case of fire dangerous vapours/gases can be generated: Smoke gases, acroleine, carbon monoxide, carbon dioxide.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

#### 6 Accidental release measures:

- **Personal protective measures:** No special measures required. Danger: Spilled oil makes floor slippery.
- **Environmental protective measures:** Prevent from entering into drains, prevent from contaminating surface water or the ground water system.
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust. Disposal according to Chapter 13 of this MSDS. Clean up with water.

#### 7 Handling and storage


- **Handling:** No special measures required.
- **Storage:**
- **Requirements for storage areas and containers:** Store cool and dry, keep away from fire and ignition sources.
- **Additional informations to storage conditions:**  
Keep container dry and tightly closed. Protect from air and sunlight.

#### 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** Filter mask if aerosols are generated.
- **Eye protection:** If hot product is used, wear protection glasses.

#### 9 Physical and chemical properties

- **Form:** liquid
- **Colour:** colourless – light yellow.
- **Odour:** neutral

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- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** > 350 °C
- **Flash point:** > 300 °C
- **Vapour pressure:** (100 °C) < 1 hPa
- **Density:** (20 °C) 0,92 g/cm<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** Not miscible
- **pH-range:** neutral
- **Viscosity:** (20 °C) ca. 60 mPas
- **Refractory index:** ca. 1,48

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Stable. Keep away from heat, open fire and other ignition sources.
- **Materials to avoid:** Strong oxidizers.
- **Hazardous reactions:** After strong heating organic crack products can be generated. No decomposition at ambient temperature.
- **Hazardous decomposition products:** At high temperatures irritant or harmful vapours are released.

## 11 Toxicological information

- **Acute toxicity:** Quantitative toxicological data for this product are not available. Food ingredient.
- **Sub-acute / chronic toxicity:** No data available. General informations about vegetable oils don't reveal any carcinogene potential.
- **Additional toxicological informations:** In case of appropriate handling and usage the product does not cause harmful effects.


## 12 Ecological information

- **Aquatic toxicity:** Not acute harmful for water organisms. Quantitative ecotoxicological data are not available. Naturally occurring substance.
- **Information about elimination (persistence and degradability):** Readily biodegradable.
- **Additional informations:** The classification is based on general informations about vegetable and animal oils. In environmental waters the product contributes to oxygen consumption. In soil the water penetration is obstructed.
- **Water hazard class:** Generally hazardous for water according to annex 1 No. 3.2 AwSV

## 13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

## 14 Transport informations

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· **Land transport according to ADR:**

Not classified as dangerous in the meaning of transport regulations.

### 15 Regulatory information

· **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product does not need to be labelled according to GHS-regulations.

· **National regulations (Germany):**

- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 10
- **VbF class:** -

### 16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

- **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.