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

· Informations to product No. 7309
· Product name:

Oleum Helianthi raffinatum
Raffiniertes Sonnenblumenöl
Sunflower 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

· Relevant identified uses of the substance or mixture and uses advised against:
No further relevant information available.
· Application of the substance / mixture:
Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

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.: 8001-21-6 Sunflower oil
· EINECS-No.: 232-273-9
· REACH Reg. No.: Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.
· INCI-Name: Helianthus Anuus Oil
· General information: Mixture of triglycerides of different fatty acids.

Fatty acid composition
- 16:0 palmitic acid 4,0-9,0%
- 18:0 stearic acid 1,0-7,0%
- 18:1 oleic acid 14,0-40,0%
- 18:2 linoleic acid 48,0-74,0%
Material Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Oleum Helianthi raffinatum

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:** characteristic/neutral
- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** > 350 °C
Material Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Oleum Helianthi raffinatum

10 Stability and reactivity

- **Flash point:** > 300 °C
- **Vapour pressure:** (100 °C) < 1 hPa
- **Density:** (20 °C) 0.92 g/cm³
- **Solubility in / Miscibility with**
  - **Water:** Not miscible
  - **pH-range:** (neutral)
- **Viscosity:** (20 °C) ca. 60 mPas
- **Refractive index:** ca. 1.48

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

- 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: 12
- 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.