

1 Identification of the Substance / Mixture and the Supplier

1.1 Product identifier

Product- / Tradename: **Rapeseed Oil, refined**
Product Shape: **Substance**

1.2 Relevant identified usages of the substance or mixture and dissuaded usages

1.2.1 Relevant identified usages

Food Stuff, Animal Feed

1.2.2 Dissuaded usages

Strong thermal heating. Possible formation of Acrolein above a temperature of 290° C.

Spraying, fogging, formation of aerosols (see also No. 8.1 Occupational exposure limit value)

1.3 Details of the supplier that provides the safety data sheet

Supplier / Manufacturer: **O. & L. Sels GmbH & Co. KG**
Street: **Düsseldorfer Straße 99 – 101**
Country code/zip code/city: **D – 41460 Neuss**
Contact für technical information: **Quality Management / Laboratory**
Phone: **+49 2131 / 2799 - 0**
Telefax: **+49 2131 / 275432**
E-Mail: **QM@sels.de**

1.4 Emergency Number

Universitätsklinikum Bonn +49 228 / 19240

2 Hazards Identification

2.1 Classification of the substance or mixture

Not necessary. Not a dangerous product according to regulation (EG) no. 1272/2008.

2.2 Labeling elements

Labelling elements due to VO (EG) No. 1272/2008: **none**
Pictogram: **none**
Signalword: **none**
Hazard determining components for labelling: **none**

2.3 Other hazards

Results of the PBT- and vPvB-assessment:

- PBT: **Not applicable.**
- vPvB: **Not applicable.**

3 Composition / Information on Ingredients

3.1 Substances

Main component of the substance: **Rapeseed Oil**
CAS 8002-13-9
EINECS 232-299-0
Chemical Composition: **Triglycerides of various fatty acids (predominant oleic acid)**

4 First Aid Measures

4.1 Description of first aid measures

General instructions: **No particular substance-specific measures required.**

4.2 Most important acute and delayed symptoms and effects

No further relevant information available.

4.3 Indications for any immediate medical attention or special treatment

No further relevant information available.

5 Fire-Fighting Measures

5.1 Extinguishants

Suitable extinguishants: **foam, carbon dioxide, extinguishing powder, sand**
Unsuitable extinguishants due to safety reasons: **water**

5.2 Specific hazards caused by the substance or mixture

Special hazards caused by the mixture or its products of combustion:

Thermal decomposition. Danger of formation of acrolein above a temperature of 290° C.

Carbon monoxide, carbon dioxide and acrolein are produced in case of fire.

5.3 Information on firefighting

For initial fires: Use fire extinguishers of fire class B.

Alert the fire brigade immediately in case of fire-spread. Access into the danger zone only with full protective clothing and self-contained breathing apparatus.

Endangered containers in the surrounding should be cooled with spray-water.

Defeat escaping vapours with water. Avoid fire-extinguishing water from contaminating surface or ground waters and soil.

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency measures

6.1.1 Information for non-emergency personnel

Danger of slipping on moistened surfaces.

6.1.2 Information for emergency forces.

Avoid contamination of soil, surface and ground waters and sewage system. Absorb the released product with bonding agents.

6.2 Environmental measures

Avoid contamination of soil, surface and ground waters and sewage system. Absorb the released product with bonding agents.

6.3 Methods and material for retention and cleaning up

For larger quantities:

Pump out the released product.

For smaller quantities and remains:

Absorb the released product with bonding agents. Dispose properly.

6.4 Reference to other sections

Note information in sections no. 7, 8 and 13.

7 Handling and Storage

7.1 Precautions for safe handling

Ignition risk when working with fire (welding, grinding etc.) on filled, empty or empty, uncleaned containers.

When hot, risk of splashing in combination with water.

7.2 Conditions for safe storage under consideration of incompatibilities

Requirements on storage rooms and containers:

Avoid contamination of soil / water.

Storage category (according to VCI):

LGK 10 – Combustible liquids

Information on storage with other products: High affinity for lipophilic solvents.

7.3 Specific end use

Food stuff. Animal feed.

8 Exposure Controls / Personal Protection Measures

8.1 Monitored parameters

Rapeseed oil; EC No.: 232-299-0

Specification: TRGS 900 - Occupational exposure limit values (= AGW; as of 23.06.2022)

Value: 5 mg/m³ (alveolar)

Peak limit: 4 (II) - max. 4-fold AGW exceedance in 15 minutes

Harmful to the foetus: Y Substances for which a risk of harm to the foetus need not be feared if the AGW and the biological limit value (BGW) are complied with.

8.2 Exposure Controls

Not necessary. No hazardous substance.

9 Physical and Chemical Characteristics

9.1 Information on basic physical and chemical characteristics

State of aggregation:

up to -5° C liquid

Colour:

light yellow

Odour:	neutral to characteristic	
Odour treshold:	not specified	
pH-value:	not specified	
Melting point/freezing point:	< 0° C	DGF C-IV 3a
Boiling point and boiling range:	> 350° C under decomposition	
Flashpoint:	> 300° C	DGF C-IV 8
Evaporation rate:	not specified	
Inflammability:	not specified	
Upper/lower inflammability- or explosion limits:	explosion limits not definable bcs. decomposition starts before	
Vapour pressure (20 °C):	< 1 mbar	
Vapour density:	not specified	
Relative density:	not specified	
Solubility in lipophilic solvents:	unlimited	
In water:	not specified	
Partition coefficient: n-Octanol/Water:	not specified	
Auto-ignition temperature:	auto-ignition possible, when finely distributed in bleaching earth, insulating or likewise material	
Decomposition temperature:	approx. 350° C	
Viscosity (20 °C):	72 - 82 mPa*s	DGF C-IV 7b
Explosive characteristics:	not specified	
Oxidizing characteristics:	not specified	

Definitions:

DGF C-IV Nr. stays for:

 DGF: **Deutsche Gesellschaft für Fettwissenschaft
(German Society for Fat Science)**

C:	Fats
IV:	Physical testing
2:	Density
3a:	Melting point / Freezing point
7:	Viscosity
8:	Flashpoint

9.2 Other information

Ignition point:	410° C	
Temperature classification:	T2	
Density (20 °C):	912 – 918 kg / m³	DGF C-IV 2d
Solidification point:	-5 °C – -8 °C	

10 Stability and Reactivity
10.1 Reaktivität

When properly used for the purpose intended, no hazardous reactivities are known.

10.2 Chemical stability

Under normal environmental conditions the product is chemically stable.

10.3 Possible hazardous reactions

Thermal decomposition when heating is above the decomposition temperature.

10.4 Conditions to avoid
Strong heating.
10.5 Incompatible materials

No relevant information available.

10.6 Hazardous decomposition products
Acrolein

11 Toxicological Information**11.1 Information on toxicological effects**

Acute toxicity:	not specified
Skin irritation/corrosivity:	not specified
Severe eye irritation/damage:	not specified
Respiratory/skin sensitisation:	not specified
Germ-cell mutagenicity:	not specified
Carcinogenicity:	not specified
Reproductive toxicity:	not specified
Specific target organ systemic toxicity (single exposure):	not specified
Specific target organ systemic toxicity (repeated exposure):	not specified
Aspiration hazard:	not specified

12 Ecological Information**12.1 Toxicity**

Aquatic toxicity: Lethality of Goldorfen [lat.: Leuciscus idus] non reached in 48 h.

12.2 Persistence and degradability

Product is completely bio-degradable.

12.3 Bioaccumulation potential

No relevant information available.

12.4 Mobility in soil

Note the waste water limit values.

12.5 Results of the PBT- and vPvB assessment

Results of the PBT- and vPvB assessment:

PBT:	not specified
vPvB:	not specified

12.6 Other hazardous effects

No relevant information available.

13 Disposal Considerations**13.1 Waste treatment processes**

The waste can be recycled and thermally recovered. Waste requires no particularly monitoring. Can be disposed of along with the domestic waste in accordance with the local regulations.

Waste entry according to list of waste (AVV):	20 01 25
Uncleaned packagings:	disposal according to AVV 15 01

14 Transport Information

ADR, ADN, IATA; ICAO; IMO; IMDG, RID: Not necessary. The product is not a hazardous material according to transport regulations.

14.1 UN-number

Not applicable.

14.2 Proper UN-shipping name

Not applicable.

14.3 Transport hazard class

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental Hazards

Not applicable.

14.6 Precautionary measures for the user

Not applicable.

14.7 Bulk transport according to appendix II of the MARPOL-Agreement and to the IBC-Code

Not applicable.

15 Regulatory Information**15.1 Regulations for safety, health and environment / specific legislation for the substance / mixture****15.1.1 EU-Regulations****Regulation (EG) No. 1907/2006 (REACH-regulation)**

Applicable when determined as an educt for further chemical products.

15.1.2 Nationale regulations**Major Accident Ordinance:** not mentioned**Water pollution class (according to AwSV):** none (animal feed, food)**15.2 Chemical safety assessment**

For this product no chemical safety assessment has been carried out.

16 Other Information

For this product, a safety data sheet is not legally required. The information given in this material safety data sheet are no contractually committed product characteristics and based on our current state of knowledge. They are no product specifications. This material safety data sheet has specifically been created for the mentioned product and its use. Since the user's conditions for the correct use of the product are beyond the producer's control, the user himself has to take care that the relevant legislation has been complied with, when using the product.

List of abbreviations, acronyms and definitions:

ADN:	Europäisches Abkommen über die internationale Beförderung gefährlicher Güter auf Binnenwasserstraßen (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR:	Europäisches Abkommen über die internationale Beförderung gefährlicher Güter auf der Straße (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
AwSV:	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (German regulation on facilities for the handling of substances hazardous to water)
CAS:	Chemical Abstract Service
EG-Nr:	Key identifier of a substance
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
i.S.:	im Sinne (according to)
LGK:	Lagerklasse (Storage Category)
MARPOL:	International Convention for Prevention of Marine Pollution from Ships
PBT:	Persistent Bioakkumulierend, Toxisch (persistent, bioaccumulative and toxic)
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID:	Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Regulation Concerning the International Carriage of Dangerous Goods by Rail)
UN-Nummer:	Kennnummer für gefährliche Stoffe (Identification No. for Dangerous Goods)
vPvB:	sehr persistent, sehr bioakkumulativ (very persistent, very bioaccumulative)

Literature References and Data Sources:

1. <http://gestis.itrust.de>
2. <http://echa.europa.eu>
3. <http://www.sels.de>