

SAFETY DATA SHEET

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

Revision date: 10-Jan-2018

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Rapeseed oil

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

1.1. Product identifier

Trade name/designation:

Rapeseed oil

Other means of identification:

Rüböl

CAS No.:

8002-13-9

EC No.:

232-299-0

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Fuel or fuel component, lubricant, binder, carrier fluid for additives, intermediate

Relevant identified uses:

Sector of uses [SU]

SU 2a: Mining (without offshore industries)

SU 2b: Offshore industries

SU 5: Manufacture of textiles, leather, fur

SU 6a: Manufacture of wood and wood products

SU 6b: Manufacture of pulp, paper and paper products

SU 7: Printing and reproduction of recorded media

SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)

SU 9: Manufacture of fine chemicals

SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU 11: Manufacture of rubber products

SU 12: Manufacture of plastics products, including compounding and conversion

SU 15: Manufacture of fabricated metal products, except machinery and equipment

SU 16: Manufacture of computer, electronic and optical products, electrical equipment

SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment

SU 18: Manufacture of furniture

Product Categories [PC]

PC 1: Adhesives, sealants

PC 2: Adsorbents

PC 3: Air care products

PC 7: Base metals and alloys

PC 9a: Coatings and paints, thinners, paint removers

PC 9b: Fillers, putties, plasters, modelling clay

PC 9c: Finger paints

PC 11: Explosives

PC 12: Fertilizers

PC 13: Fuels

PC 14: Metal surface treatment products

PC 15: Non-metal surface treatment products

PC 16: Heat transfer fluids

PC 17: Hydraulic fluids

PC 18: Ink and toners

PC 19: Intermediate (precursor)

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PC 20: Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

PC 21: Laboratory chemicals

PC 23: Leather treatment products

PC 24: Lubricants, greases, release products

PC 25: Metal working fluids

PC 26: Paper and board treatment products

PC 27: Plant protection products

PC 28: Perfumes, fragrances

PC 29: Pharmaceuticals

PC 30: photochemicals

PC 31: Polishes and wax blends

PC 32: Polymer preparations and compounds

PC 33: Semiconductors

PC 34: Textile dyes and impregnating products

PC 35: Washing and cleaning products

PC 36: Water softeners

PC 39: Cosmetics, personal care products

Process categories [PROC]

PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC 4: Chemical production where opportunity for exposure arises

PROC 5: Mixing or blending in batch processes

PROC 6: Calendaring operations

PROC 7: Industrial spraying

PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC 10: Roller application or brushing

PROC 11: Non industrial spraying

PROC 12: Use of blowing agents in manufacture of foam

PROC 13: Treatment of articles by dipping and pouring

PROC 14: Tableting, compression, extrusion, pelletisation, granulation

PROC 15: Use as laboratory reagent

PROC 17: Lubrication at high energy conditions in metal working operations

PROC 18: General greasing/lubrication at high kinetic energy conditions

PROC 19: Manual activities involving hand contact

PROC 20: Use of functional fluids in small devices

PROC 21: Low energy manipulation of substances bound in materials and/or articles

PROC 22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature

PROC 23: Open processing and transfer operations at substantially elevated temperature

PROC 24: High (mechanical) energy work-up of substances bound in/on materials and/or articles

PROC 25: Other hot work operations with metals

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Environmental release categories [ERC]

- ERC 1:** Manufacture of the substance
- ERC 2:** Formulation into mixture (mixtures)
- ERC 3:** Formulation in materials
- ERC 4:** Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- ERC 5:** Use at industrial site leading to inclusion into/onto article
- ERC 6a:** Use of intermediate
- ERC 6b:** Use of reactive processing aid at industrial site (no inclusion into or onto article)
- ERC 6c:** Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
- ERC 6d:** Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
- ERC 7:** Use of functional fluid at industrial site
- ERC 8a:** Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- ERC 8b:** Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
- ERC 8c:** Widespread use leading to inclusion into/onto article (indoor)
- ERC 8d:** Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- ERC 8e:** Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)
- ERC 8f:** Widespread use leading to inclusion into/onto article (outdoor)
- ERC 9a:** Widespread use of functional fluid (indoor)
- ERC 9b:** Widespread use of functional fluid (outdoor)
- ERC 10a:** Widespread use of articles with low release (outdoor)
- ERC 10b:** Widespread use of articles with high or intended release (outdoor)
- ERC 11a:** Widespread use of articles with low release (indoor)
- ERC 11b:** Widespread use of articles with high or intended release (indoor)

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

German Biofuels GmbH

Am Hünengrab 9

16928 Pritzwalk/Germany

Telephone: +49 33986 5050

Telefax: +49 33986 50599

E-mail: qm@gbfgmbh.de

1.4. Emergency telephone number

Produktion/Production, 24h: +49 172 56 82 831, +49 33986 50582 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard components for labelling:

No

Hazard statements: -

Supplemental Hazard information (EU): -

Precautionary statements: -

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Special rules for supplemental label elements for certain mixtures:

No

2.3. Other hazards

Adverse human health effects and symptoms:

May cause minor eye irritation.

Vapors produced by heating the substance, or finely misted materials, may irritate the mucous membranes and cause dizziness, and nausea.

SECTION 3: Composition / information on ingredients

3.1. Substances

Description:

The substance mainly consists of triglycerides of saturated and unsaturated fatty acids of chain length C16-C18.

Ingredients / Impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CL P]	Concentration
CAS No.: 8002-13-9 EC No.: 232-299-0	Rape oil	> 99 - < 100 %

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Seek medical attention if symptoms persist.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.
IF ON CLOTHING: Change contaminated, saturated clothing.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Do NOT induce vomiting.
Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person or a person with cramps.

4.2. Most important symptoms and effects, both acute and delayed

May cause minor eye irritation.

Vapors produced by heating the substance, or finely misted materials, may irritate the mucous membranes and cause dizziness, and nausea.

4.3. Indication of any immediate medical attention and special treatment needed

No special medical actions required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂)
Water mist
alcohol resistant foam
Extinguishing powder

Unsuitable extinguishing media:

Strong water jet Water stream may splash the burning liquid and spread fire.
Consider halon use may not be permissible in some countries.

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5.2. Special hazards arising from the substance or mixture

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Soaked rags or spill absorbents (i.e. oil dry, sacks, sand) can cause spontaneous combustion if stored near combustibles and not handled properly.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

On danger by contact with substance: Wear protective gloves and protective clothing.

5.4. Additional information

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove all sources of ignition.

If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point.

Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Turn leaking containers leakside up to prevent the escape of liquid.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film.

Greasy nature will result in a slippery surface.

6.4. Reference to other sections

No data available

6.5. Additional information

If appropriate sections 8 and 13 shall be referred to.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Note: Triglycerides of fatty acids with longer chain length are not classified as dangerous. Specific Risk Management Measures are not required. Nevertheless, the exposure of workers during and after normal operations should be minimised by the use of good industrial hygiene practice.

Avoid direct contact with the substance.

When using do not eat, drink or smoke.

Used working clothes should not be worn outside the work area.

Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed in a cool, well-ventilated place.

Keep away from sources of ignition - No smoking.

Hints on storage assembly:

Do not store together with: Oxidizing agent

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Storage class: 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Recommended storage temperature 15 °C - 25 °C

Below normal ambient temperatures material can start to solidify.

7.3. Specific end use(s)

Recommendation:

No sector specific guidance is available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment



Eye/face protection:

Wear eye/face protection.

Skin protection:

Hand protection: Disposable gloves

Suitable material: NBR (Nitrile rubber)

Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

Respiratory protection necessary at: aerosol or mist formation

Other protection measures:

General health and safety measures: Wash hands and face before breaks and after work and take a shower if necessary.

Wash contaminated clothing before reuse.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: yellowish

Odour: mild

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not applicable</i>			Dissolved substance quantity: < 0.023 mg/l
Melting point	$\geq -5 - \leq 5$ °C		DIN ISO 3016	
Freezing point	<i>not applicable</i>			
Initial boiling point and boiling range	$\geq 300 - \leq 650$ °C		ASTM D 7169	pressure: 1013 mbar
Decomposition temperature (°C):	> 300 °C			
Flash point	≥ 300 °C		EN ISO 2719	
Evaporation rate	<i>not determined</i>			

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parameter		at °C	Method	Remark
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	< 1 mbar	25 °C	EN 13016-1	
Vapour density	<i>not determined</i>			
Relative density	≥ 900 - ≤ 930 kg/m ³	15 °C	EN ISO 3675	
Bulk density	<i>not applicable</i>			
Water solubility	≈ 0.023 mg/l			
Partition coefficient: n-octanol/water	<i>not determined</i>		OECD 107	
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	< 36 mm ² /s	40 °C	EN ISO 3104	

9.2. Other information

Flammability: Not readily flammable, > Flam. Liq. 4

Oxidising properties: Not oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is chemically stable under recommended conditions of storage, use and temperature.
No known hazardous reactions.

10.2. Chemical stability

Substance is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

See incompatible materials.

10.5. Incompatible materials

Oxidising agent, strong
Alkali (lye), concentrated

10.6. Hazardous decomposition products

In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Thermal decomposition can lead to the escape of irritating gases and vapours. (Acrolein)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

No information required, as approved food and feed

Serious eye damage/irritation:

May cause minor eye irritation.

Respiratory or skin sensitisation:

Vapors produced by heating the substance, or finely misted materials, may irritate the mucous membranes and cause dizziness, and nausea.

Aspiration hazard:

Not applicable. (no hydrocarbon)

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

No information required, as approved food and feed

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12.2. Persistence and degradability

Biodegradation:

Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Incineration is recommended.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

20 03 99	Municipal wastes not otherwise specified
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Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation.

13.2. Additional information

No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.

not relevant

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not relevant

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IBC-Code/2014: Pollution Category Y

Additional information:

Deep tank or suitable special tank on dry vessels

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

Other regulations (EU):

The substance has NOT to be accounted to the tonnage threshold according EC Directive 2012/18/EU (Seveso III), annex 1 - part 2 (no. 34 e).

15.1.2. National regulations

[DE] National regulations

Water hazard class (WGK)

WGK:

awg - allgemein wassergefährdend

Description:

floating liquid

Source:

AwSV

Other regulations, restrictions and prohibition regulations

DIN 51605 (Requirements for rapeseed oil when used as fuel)

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

-

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available

16.6. Training advice

No data available

16.7. Additional information

This SDS is not required by Article 31 of Regulation 1907/2006/EU as the substance is not classified as hazardous, however, to comply with Article 32 of REACH and provide customers with relevant information the format of the SDS (according to Regulation 453/2010/EU) has been used.

Given data sheets are based on our present experiences, however they are no assurance of product properties and do not justify a contractual legal relationship.