



RAVENOL Mehrzweckfett OML



SPEZIFIKATIONEN DIN 51 502: K2K-30, ISO 6743 TEIL 9: ISO-L-XCCEA2
FREIGABE MB-FREIGABE 267.0

RAVENOL Mehrzweckfett OML ist ein Lithium – verseiftes Mehrzweckfett mit Oxidations – und Korrosionsschutzmitteln.

RAVENOL Mehrzweckfett OML ist außergewöhnlich mechanisch stabil, hat einen sehr geringen inneren Reibewert und ist deswegen leicht förderbar.

ART.-NR. 1340101

100 g | 1340101-100
200 g | 1340101-200
400 g | 1340101-400
1 kg | 1340101-001
5 kg | 1340101-005
10 kg | 1340101-010
15 kg | 1340101-015
25 kg | 1340101-025
180 kg | 1340101-180

Anwendungshinweis

RAVENOL Mehrzweckfett OML wird verwendet für die Schmierung von leicht belasteten Wälzlagern und Maschinenteilen. Es eignet sich als Gleit- und Wälzlagerfett an Fettschmierstellen von Kraftfahrzeugen, Geräten, Maschinen, Förderanlagen, Baumaschinen, usw.

Eigenschaften

RAVENOL Mehrzweckfett OML bietet:

- Universeller Einsatz, Mehrzweckcharakteristik für gemischten Maschinenpark
- Extrem scherstabil
- Überaus hervorragender Verschleißschutz
- Sehr gute mechanische und chemische Stabilität
- Sehr guter Korrosionsschutz
- Sehr gute Alterungsbeständigkeit
- Gute Pumpbarkeit, auch bei niedrigen Temperaturen.



Eigenschaften	Einheit	Daten	Prüfung nach
Farbe		hellbraun	visuell
Verdicker		Lithium-Komplexseifen	-
NLGI-Klasse		2	DIN 51 818
DIN-Produkt-Klassifikation		K2K-30	DIN 51 502
ISO-Produkt-Klassifikation		ISO-L-XCCEA2	ISO 6743 T.9
Einsatz-Temperatur-Bereich	°C	-30 / +120	DIN 51 825
max. kurzfristige Gebrauchstemperatur	°C	130	-
Walk-Penetration 60 strokes	mm/10 bei 25 °C	265-295	ISO 2137
Korrosion (SKF Emcor dest. Wasser)	Korr. Grad	1	DIN 51 802
Tropfpunkt	°C	>180	DIN ISO 2176
Wasserbeständigkeit (3h/90°C)	°C	1-90	DIN 51 807 T.1
VKA Schweißkraft	N	2000 bis 2200	DIN 51 350 T.4
Kinematische Viskosität (Basisöl)	mm ² /s bei 40°C	130	DIN 51562-1

Alle Angaben entsprechen nach bestem Wissen dem derzeitigen Stand der Erkenntnisse und unserer Entwicklung. Änderungen bleiben vorbehalten. Alle Bezugnahme auf DIN-Normen dienen nur der Warenbeschreibung und stellen keine Garantie dar. Bei vorliegenden Problemfällen technische Beratung anfordern.

Stand: 10. Mai 2021



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

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

1.1. Product identifier

Trade name/designation:

RAVENOL Mehrzweckfett OML

Article No.:

1340101

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

Use of the substance/mixture:

grease

1.3. Details of the supplier of the safety data sheet

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

Ravensberger Schmierstoffvertrieb GmbH

Jöllenbecker Str. 2

33824 Werther

D

Telephone: +49 5203 9719 0

Telefax: +49 5203 9719 48

E-mail: kontakt@ravenol.de

Website: www.ravenol.de

E-mail (competent person): kontakt@ravenol.de

1.4. Emergency telephone number

Abt. Produktsicherheit, 24h: +49 700 24 112 112 (Company ID: RAV) (outside USA/Canada) 011 49 700 24 112 112 (Company ID: RAV) (inside USA/Canada), +49 5203 9719 0 (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 mixture 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.

Supplemental Hazard information (EU)

EUH210 Safety data sheet available on request.

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

No data available

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

No special measures are necessary. Change contaminated, saturated clothing.

Following inhalation:

Provide fresh air. Consult a doctor immediately.



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In case of skin contact:

Wash with plenty of soap and water. In case of skin irritation, consult a physician.

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.

In case of eye irritation consult an ophthalmologist.

After ingestion:

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

Consult a doctor immediately.

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

Gastrointestinal complaints

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Extinguishing powder, Carbon dioxide (CO₂), Water mist, Water spray jet.

Use water spray jet to protect personnel and to cool endangered containers.

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

No information available.

Hazardous combustion products:

Carbon monoxide, Carbon dioxide (CO₂), Sulphur oxides

5.3. Advice for firefighters

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

Use water spray jet to protect personnel and to cool endangered containers.

5.4. Additional information

Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Special danger of slipping by leaking/spilling product.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Take up mechanically. Dispose of waste according to applicable legislation.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

6.5. Additional information

No data available



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

No special measures are necessary.

Fire prevent measures:

No special fire protection measures are necessary.

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

No special measures are necessary.

To follow: TRGS 510

Keep only in the original container at temperature not exceeding 40 °C.

Hints on storage assembly:

not required

Storage class: 10 - 13 - Other combustible and non-combustible substances

Further information on storage conditions:

Store in a cool dry place.

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

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. DIN EN 166

Skin protection:

Hand protection

Suitable material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber)

Thickness of the glove material: $\geq 0,4$ mm

Breakthrough time (maximum wearing time) 480 min

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

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Tested protective gloves must be worn: DIN EN 374

Suitable protective clothing: Protective clothing:

Respiratory protection:

not required

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

8.3. Additional information

No data available



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: light brown

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 250 °C			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	> 350 °C			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	< 0.1 hPa	20 °C		
Vapour density	<i>not determined</i>			
Relative density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility (g/L)	The study does not need to be conducted because the substance is known to be insoluble in water.			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

Solvent content: 0%

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Avoid: Heat, Flame

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.



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Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information:

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

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

No information available.

12.2. Persistence and degradability

Abiotic degradation:

No information available.

12.3. Bioaccumulative potential

Bioconcentration factor (BCF):

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

Remark:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

13.2. Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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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

not relevant

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):

Safety data sheet available for professional user on request.

15.1.2. National regulations

[DE] National regulations

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

Source:

Self-classification (mixture; calculation rule).

Technische Regeln für Gefahrstoffe

TRGS 510

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Informationen (BGI) 868

Berufsgenossenschaftliche Regeln (BGR) 189, 190, 192, 195

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not 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

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).



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16.3. Key literature references and sources for data

67/548/EEC - Dangerous Substances Directive
1999/45/EEC - Dangerous Preparations Directive
EC 1907/2006 - REACH Regulation
1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006
Regulation (EC) No 1907/2006 (REACH), Annex II
European Chemicals Agency (ECHA), C & L classification and labeling inventory
European Chemicals Agency (ECHA), ECHA CHEM Registered substances
OECD The Global Portal to Information on Chemical Substances (ChemPortal)
Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances
Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

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 mixture 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

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.