

Safety data sheet

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

Trade name: Bio sawing chain lubrication oil 100 ml

Metabo no.: 628711000

Version / Language: 1.0 / DE

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Date: 28.03.2023



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

1.1 Product identifier

Product form: Mixture

Trade name: Metabo organic saw chain adhesive oil 100 ml

Product type: Lubricant

Product group: Mixture

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

Relevant identified uses

Commercial use as lubricant, use as lubricant by consumers

Intended for proper handling only: Chain lubricant

Uses advised against

According to the generic exposure scenarios of the ATIEL / ATC on the use of lubricants (V1.0, 07.01.2013)

Details on the exposure scenarios can be found in the appendix

1.3 Details of the supplier providing the safety data sheet.

Metabowerke GmbH

Metabo Alley 1

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Web: <https://www.metabo.com>

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1.4 Emergency number

GBK GmbH (24 h): +49 (0)6132-84463

SECTION 2: Possible dangers

2.1 Classification of the substance or mixture

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

The mixture is not classified according to Regulation (EC) No 1272/2008 [GHS].

2.2 Labelling elements

Labelling in accordance with Regulation (EC) No 1272/2008 [CLP].

None

2.3 Other hazards

Results of the PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Although this product does not require labelling, we recommend that you follow the safety advice.

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SECTION 3: Composition / information on ingredients

3.1 Fabrics

Not applicable

3.2 Mixtures

Mixture of vegetable oils with the following non-hazardous additives

Hazardous ingredients

Substance name	Product identifier	Concentration [%]	Classification according to Regulation (EC) No 1272 [CLP].
Rapeseed oil (Brassica napus)	CAS: 8002-13-9 EINECS: 232-299-0:	≥0,25-≤2,5%	Substance subject to a Community occupational exposure limit value
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	CAS: 68411-46-1 EINECS: 270-128-1 Reg.no.: 01-2119491299-23	0,1-0,25%	Repr. 2, H361f

Additional hints

For the wording of the listed hazard statements, see section 16.

This mixture does not contain any substances which fulfil the criteria of the hazard class "acute toxicity" according to the CLP Regulation.

Occupational exposure limits, where available, are given in section 8.

SECTION 4: First aid measures

4.1 Description of the first aid measures

General notes

Change contaminated clothing.

Consult a doctor if symptoms persist.

In case of eye contact

Do not rub eyes dry, as the mechanical stress may cause corneal damage. If necessary, remove contact lenses and rinse eyes for several minutes with running water with the eyelids open. If possible, use isotonic eye rinse 0.9% NaCl.

If symptoms persist, seek medical help (ophthalmologist or occupational physician).

Inhalation

Provide fresh air, remove any dust from the throat and nose area.

Consult a doctor if symptoms persist

In case of skin contact

In general, the product is not irritating to the skin, wash off with soap and water and rinse well. Consult a doctor if symptoms persist.

In case of ingestion

Do not attempt neutralisation. Do not induce vomiting. Rinse mouth thoroughly with water.

Consult a doctor if symptoms persist.

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4.2 Most important symptoms and effects, both acute and delayed

Signs / symptoms of overexposure

No further information.

4.3 Indications for immediate medical help or special treatment

Notes for the doctor

Treat symptomatically.

SECTION 5: Fire fighting measures

5.1 Extinguishing agent

Suitable extinguishing agents

Water mist, water spray, foam, extinguishing powder, carbon dioxide.

Adapt fire extinguishing measures to the surroundings.

Unsuitable extinguishing agents

Water in full jet

5.2 Special hazards arising from the substance or mixture

Hazards arising from the substance or mixture

When heated or on fire, a pressure increase occurs and the container may burst

Hazardous combustion products

Carbon dioxide, carbon monoxide

5.3 Advice for firefighting

Cool endangered containers with water spray from a safe distance.

Do not inhale explosion and fire gases

Special protective equipment for fire fighting

Ambient air self-contained breathing apparatus. Full protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Emergency measures: Use personal protective clothing.
Special slip hazard due to leaked/spilled product.
Keep ignition sources away.
Ensure sufficient ventilation

6.2 Environmental protection measures

Avoid release into the environment.

Do not allow to enter the subsoil/ground. Do not allow to enter drains/surface waters/groundwater.

Notify the competent authorities if the product has caused environmental pollution (sewage systems, surface water, soil or air).

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6.3 Methods and material for retention and cleaning

Clean-up procedure: Absorb the product with liquid-binding material (e.g. sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the absorbed material according to regulations.

6.4 Reference to other sections

For further information on disposal, see section 13.

SECTION 7: Handling and storage

The information in this section contains general advice and guidance

7.1 Protective measures for safe handling

Protective measures:

No special measures required.

Store in a cool, dry place in tightly closed containers.

Hygiene measures:

Do not eat, drink or smoke when using. Always wash hands after handling the product. Remove contaminated, soaked clothing immediately.

7.2 Conditions for safe storage taking into account incompatibilities

Store only in the original container. Protect from sunlight.

Store in a cool, dry place in tightly closed containers.

Store in a cool and dry place. Protect from frost. Store at + 0 to + 60 °C.

Co-storage with medicinal products, foodstuffs and feedstuffs including additives is prohibited

Storage class: 10

7.3 Specific end uses

Recommendations

No further information available.

SECTION 8: Exposure controls / Personal protective equipment

The information in this section contains general advice and guidance. Information provided is based on typical anticipated uses of the product. Additional measures may be required for handling large quantities or other uses that may significantly increase worker exposure or release to the environment.

8.1 Parameters to be monitored

Occupational exposure limit values

CAS: 8002-13-9 Rapeseed oil (Brassica napus)

AGW: Long-term value:

5 A mg/m³
4(II); DFG, Y

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DNEL values

CAS: 68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Oral	DNEL / systematic / long-term	0.04 mg/kg/24h (consumer)	
	DermalDNEL / systematic / long-term	0.08 mg/kg/24h (worker)	
	Systematic / long-term	0.04 mg/kg/24h (consumer)	
Inhalative (worker)	DNEL / systematic / long-term		.06 mg/m ³
	systematic / long-term	.14 mg/m ³ (consumer)	

PNEC values

CAS: 68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

	PNEC waters / freshwater	0.0338 mg/l (aquatic organisms)
PNEC	Water bodies / seawater	0.00338 mg/l (aquatic organisms)
PNEC	intermittent releases / freshwater	0.51 mg/l (aquatic organisms)
	PNC wastewater treatment plant (STP)	10 mg/l (aquatic organisms)
PNEC	Sediment / Freshwater	0.446 mg/kg (aquatic organisms)
PNEC	Sediment, seawater	0.0446 mg/kg (aquatic organisms)
PNEC	Soil	2.59 mg/kg (Terrestrial organisms)

Additional notes: The lists valid at the time of compilation served as a basis.

8.2 Exposure controls and monitoring

Suitable technical control devices

No further information, see section 7.

Limitation and monitoring of environmental exposure

Avoid release into the environment.

Individual protective measures, for example personal protective equipment

General protective and hygienic measures:

The usual precautions when handling chemicals must be observed.

Keep away from food, drink and animal feed.

Wash hands before breaks and at the end of work.

Do not inhale gases, vapours, aerosols.

Breathing protection

Not necessary with good room ventilation

Respiratory protection only in case of aerosol or mist formation:

Multi-purpose combination filters (US) or filter type ABEK (EN 14387) must be used.

Respiratory protection devices and components must comply with appropriate government standards such as NIOHS

(US) or CEN (EU) tested and approved.

Hand protection



The glove material must be impermeable and resistant to the product, substance, preparation.

Selection of the glove material considering the breakthrough times, permeation rates and degradation.

Recommendation: Chemical-resistant protective gloves (EN 374)

Glove material

Nitrile rubber

Chloroprene rubber

The selection of a suitable glove is not only dependent on the material, but also on further quality characteristics and varies from manufacturer to manufacturer. Since the product is a preparation from several substances, the resistance of glove materials is not predictable and must therefore be checked before use.

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Penetration time of the glove material

Recommended value for permeation: Level 6 \geq 480 min.

The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.

Additional note: The data are based on own tests, literature data and information from glove manufacturers or are derived by analogy from similar substances. It should be noted that the daily duration of use of a chemical protective glove in practice may be significantly shorter than the permeation time determined by tests due to the many influencing factors (e.g. temperature). Due to the large variety of types, the manufacturer's instructions for use must be observed.

Eye/face protection



Recommendation: Use safety goggles according to EN 166:2001

Body protection:

Impermeable protective clothing

Non-slip shoes recommended.

SECTION 9: Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Appearance

State of aggregation:	Liquid
Colour:	Orange
Odour:	Characteristic
Odour threshold:	Not available
pH value:	Not available
Melting point / freezing point:	not determined
Initial boiling point and boiling range:	Not available
Flammability	Not applicable
Lower and upper explosion limits not determined	determined
Flash point:	> 200°C
Decomposition temperature	Not determined
pH value	Not determined.
Ignition temperature:	Not available
Vapour pressure at 20°C:	Not determined
Vapour density:	Not available
Relative density:	Not available
Density at 20°C:	0.921 g/cm ³ (ASTM D 4052)
Solubility(ies):	Not available
Solubility water:	Not or slightly miscible.
Partition coefficient n-octanol/water	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Not available
Kinematic viscosity at 40 °C	65 mm ² /s
Evaporation number	Not available

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9.2 Other information

Important health, safety and environmental information

Ignition temperature:	The product is not self-igniting.
Explosive properties:	The product is not explosive.
Solvent content VOC (EU)	0,00 %
Change of state:	Not determined
Evaporation rate:	Not determined.

Information on physical hazard classes

Explosive substances/mixtures and articles containing explosives	Not applicable
Flammable gases	Not applicable
Aerosols	Not applicable
Oxidising gases	Not applicable
Gases under pressure	not applicable
Flammable liquids	Not applicable
Flammable solids	Not applicable
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not applicable
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	not applicable
Substances and mixtures which, in contact with water, emit flammable gases in contact with water	Not applicable
Oxidising liquids	Not applicable
Oxidising solids	Not applicable
Organic peroxides	not applicable
Substances and mixtures corrosive to metals	not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No further relevant information available

10.2 Chemical stability

The product is chemically stable under normal ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Temperatures above 60°C may reduce the shelf life of the product.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No dangerous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on hazard classes within the meaning of Regulation (EC) No 1272/2008

Acute toxicity

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

LD/LC50 values relevant for classification

CAS: 68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

	OralLD50	5,000 mg/kg (rat)
	NOEL100	mg/kg/24h (rat)
	NOAEL25	mg/kg/24h (rat)
	LOEL	125 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)

Corrosive/irritant effect on the skin

Not classified

Serious eye damage / irritation

Not classified

Sensitisation of the respiratory tract / skin:

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

Specific target organ toxicity at single exposure:

Not classified

Specific target organ toxicity in case of repeated exposure

Not classified

Aspiration hazard

Not classified

Information on other hazards

No further information available.

SECTION 12: Environmental information

12.1 Toxicity

Aquatic toxicity:

CAS: 68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

LC50	100 mg/l/96h (fish)
LC0	58 mg/l/96h (fish)
LC100	100 mg/l/96h (fish)
EC500	.271-1 g/kg/28d (sediment)
EC50	100 mg/l/24h (aquatic invertebrates)
EC50	100 mg/l/72h (algae / cyanobacteria)
EC100	100 mg/l/48h (aquatic invertebrates)

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EC50	51 mg/l/48h (aquatic invertebrates)
NOEC	0.03125-1 g/kg/28d (sediment)
0,5-1	g/kg/28d (terrestr. macroorganisms (-arthropods))
NOEC	10-100 mg/l/72h (algae / cyanobacteria)
NOEC	10 mg/l/48h (aquatic invertebrates)
LOEC	0.0625-1 mg/l/21d (sediment)
	1 mg/l/21d (Terrestr. macroorganisms (-arthropods))

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

CAS: 68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Partition coefficient₅ .2-10.8 [---] (log Kow) (bioaccumulation)

Bioconcentration factor (BCF) 1.73 BCF (bioaccumulation)

Biodegradability₉₄ .4 % (28d) (Biodegradability) (OECD 301 B)

12.4 Mobility in soil

No further relevant information available.

12.5 Result of the PBT and vPvB assessment

Not applicable.

12.6 Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

12.7 Other adverse effects

General notes:

Water hazard class 1 (self-classification): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Handling and storage

13.1 Waste treatment process

Recommendation:

Must be given special treatment in compliance with official regulations.

Must not be disposed of together with household waste. Do not allow to enter drains.

Contact waste exchanges about recycling.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

Waste code number:

The waste codes given are recommendations based on the expected use of this product. Due to the specific use and disposal conditions at the user's site, other waste codes may be assigned under certain circumstances. (2014/955/EU).

European Waste Catalogue:

13 02 07* - readily biodegradable machinery, gear and lubricating oils).

Uncleaned packaging:

Recommendation: Dispose of in accordance with official regulations.

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SECTION 14: Transport information

14.1 UN number or ID number

According to ADR / IMDG / IATA not a dangerous good in the sense of the transport regulations.

14.2 UN proper shipping name

According to ADR / IMDG / IATA not a dangerous good in the sense of the transport regulations.

14.3 UN proper shipping name

According to ADR / IMDG / IATA not a dangerous good in the sense of the transport regulations.

14.4 Packing group

According to ADR / IMDG / IATA not a dangerous good in the sense of the transport regulations.

14.5 Environmental hazards

Not applicable

14.6 Special precautions for the user

Not applicable

14.7 Carriage in bulk by sea in accordance with IMO instruments

Not applicable.

SECTION 15: Legislation

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

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:	not applicable
Signal word:	not applicable
Hazard statements	Not applicable

EC Regulation (EC) No 1907/2006 (REACH)

Annex XIV:	No restrictions.
Annex XVII:	No restrictions.
Substances of very high concern (SVHC)	No restrictions.

Directive 2011/65/EU (RoHS)

Annex II:	None of the substances is included.
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Directive 2012/18/EU (Seveso)

Annex I:	None of the substances is included.
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EC Regulation (EU) 2019/1148 (Explosives precursors)

Annex I: Restricted source materials	None of the substances are included.
Annex II Notifiable precursors	None of the substances is included

EC Regulation (EC) No 273/2004 (drug precursors)

None of the substances are included.

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National regulations:

Water hazard class:

WGK 1 (Self-assessment): slightly hazardous for water.

Other EU provisions

Industrial emissions (integrated pollution prevention and control) - Air

No restrictions.

Industrial emissions (integrated pollution prevention and control) - Water substances

No restrictions.

Ozone-depletable substances (1005/2009/EU)

No restrictions.

Storage class (TRGS 510)

No restrictions.

Water hazard class

Class : 1 (slightly hazardous to water) Classification according to AwSV

Prior Informed Consent (PIC) (649/2012/EU)

No restrictions.

15.2 Chemical safety assessment:

A chemical safety assessment has not been carried out.

SECTION 16: Other notes

TSCA audited.

The information is based on our present knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. The classification of the mixture was made by calculation according to the rules of Annex I in Regulation (EC) No 1272/2008.

No special training instructions required to ensure protection of human health and the environment.

16.1 Notes on changes

None.

16.2 Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS no.	Chemical Abstract Service - Number
CLP	Regulation on classification, labelling and packaging [Regulation (EC) No 1272/2008].
DMEL	Derived exposure level with minimal impairment
DNEL	Derived exposure level without impairment
EC no.	European Community Number
EN	European Standard
EUH rate	CLP-specific hazard statement

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GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IARC	International Agency for Cancer Research
IATA	Association for International Air Transport
IMDG	Dangerous goods regulations for international maritime transport
PBT	Persistent, bioaccumulative and toxic substance
PNEC	Estimated non-effect concentration
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
MSDS	Safety data sheet
TRGS	Technical rules for hazardous substances
vPvB	Very persistent and very bioaccumulative

16.3 Important literature references and data sources

No information.

16.4 Classification of mixtures and assessment method used according to Regulation (EC) No 1207/2008 [CLP].

No information.

16.5 Wording of H and EUH phrases (number and full text)

No information.

16.6 Full text of the classifications [CLP/GHS].

No information.

Note for the reader

To the best of our knowledge, the information contained herein is correct. However, neither the above-named manufacturer nor its affiliates assume any liability as to the accuracy or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.