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

#### M - Wave Oil Guard Bio

Date of creation

28. April 2005

Date of revision

1.2.

29. September 2017

Version

2.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking M - Wave Oil Guard Bio

1.1. **Product identifier** 

Substance / mixture

Number

mixture EKO 50

Germany

Messingschlager GmbH

sa@messingschlager.com

WWW.messingschlager.com

+49 9544/944445

Hassbergstr. 45, Baunach, 96148

Other names of the mixture oil for lubricating bicycle

Relevant identified uses of the substance or mixture and uses advised against Intended use of the mixture bio-degradable, multifunctional lubricating fluid

Not recommended use of the mixture not available

Details of the supplier of the safety data sheet 1.3.

Distributor

Name or trade name

Address

Phone

E-mail

Web address

Manufacturer

Name or trade name

Address

Phone

Fax

F-mail

Web address

Competent person responsible for the safety data sheet

E-mail

#### 1.4. **Emergency telephone number**

Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals

## **SECTION 2: Hazards identification**

## Classification of the substance or mixture

## Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

Full text of all classifications and H-phrases is given in the section 16.

## The most serious adverse physico-chemical effects

The most serious adverse effects on human health and the environment

unknow

#### 2.2. Label elements

none

#### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## **Chemical characterization**

A mixture of rapeseed oil and additives.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Name of the substance	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 8002-13-9 EC: 232-299-0	řepkový olej	90-99		

Full text of all classifications and H-phrases is given in the section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this Safety Data Sheet.

#### Inhalation

Terminate the exposure immediately; move the affected person to fresh air.

#### Skin contact

Remove contaminated clothes.

## **Eye contact**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

## **Ingestion**

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

## Inhalation

Not expected.

## Skin contact

Not expected.

## Eye contact

Not expected.

## **Ingestion**

Not expected.

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

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Accommodate extinguishing components to the location of fire.

## Unsuitable extinguishing media

not available

## 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

## 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing.

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8.

## 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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## 6.3. Methods and material for containment and cleaning up

After removal of the product, wash the contaminated site with plenty of water,

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in areas where it is not in contact with open fire and other ignition sources. No smoking. Protect against direct sunlight. Electrostatic charge may be formed during use; use only earthed piping (tubing) when repumping. Use of antistatic clothes and footwear is recommended. Use non-sparking tools. Do not inhale gases and vapours. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

## 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Do not store together with strong oxidizing agents. Keep away from food and beverages. Keep only in containers that correspond to the original package.

Storage class

Content

Type of packaging

Material of package

12 - Other non-combustible liquids

100 ml

bottle, dropper

PE-HD (2), Polyethylene - high-density, linear (Plastics)



PE-HD

min 0 °C, max 40 °C

## Storage temperature

## 7.3. Specific end use(s)

Observe instructions on the product label.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

none

## 8.2. Exposure controls

Follow usual measures for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

## Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

## Skin protection

When handling in long-term or repeatedly, use protective gloves.

## **Respiratory protection**

It is not needed.

## Thermal hazard

not available

## **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

## **More information**

Avoid spraying into the eyes, mouth, skin contamination. Avoid contact of food and beverages.

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yellow oily

liquid at 20°C

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## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance

Physical state

color

Odour threshold data not available pH data not available

Melting point/freezing point -30 °C

Initial boiling point and boiling range data not available

Flash point >280 °C

Evaporation rate data not available Flammability (solid, gas) data not available

Upper/lower flammability or explosive limits

flammability limits data not available explosive limits data not available Vapour pressure data not available Vapour density data not available Relative density data not available

Solubility(ies)

solubility in water insoluble

solubility in fats data not available
Partition coefficient: n-octanol/water data not available

Auto-ignition temperature >370 °C

Decomposition temperature data not available
Viscosity data not available
Kinematic viscosity 36-44 mm²/s at 40°C
Explosive properties data not available
Oxidising properties data not available

They are not available

9.2. Other information

Density 0.915 g/cm³ at 15 °C ignition temperature data not available

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

The mixture is non-flammable.

## 10.2. Chemical stability

The product is stable under normal conditions.

## 10.3. Possibility of hazardous reactions

The product is stable under normal conditions.

## 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Keep away from flames, sparks, overheating and frost and temperatures above 250 ° C.

# 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents. Thereby a dangerous exothermic reaction will be prevented.

## 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

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## **Acute 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.

## Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

## Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

## **Aspiration hazard**

Based on available data the classification criteria are not met.

Data not available

## **SECTION 12: Ecological information**

## 12.1. Toxicity

## **Acute toxicity**

The product contains no substances with an effect against active action of microorganisms.

Data not available

# 12.2. Persistence and degradability

The product is not biodegradable.

## 12.3. Bioaccumulative potential

Insignificant.

## 12.4. Mobility in soil

The product is insoluble in water. Contamination of water courses may occur in case of rain.

# 12.5. Results of PBT and vPvB assessment

The product is not classified as PBT or vPvB.

## 12.6. Other adverse effects

The product is slightly soluble in water, and the sewage treatment plants easily be eliminated mechanically (abiotic processes). Avoid leak into the waste water system and into the countryside. The product spreads on the surface, where it forms an impenetrable barrier to air and leads to the death of aquatic organisms.

## **SECTION 13: Disposal considerations**

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## 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

## Code of type of waste

13 02 07

readily biodegradable engine, gear and lubricating oils

## Code of type of waste packaging

15 01 10

packaging containing residues of or contaminated by dangerous substances

15 01 02

plastic packaging

## **SECTION 14: Transport information**

## 14.1. UN number

Not subject to ADR.

## 14.2. UN proper shipping name

not available

## 14.3. Transport hazard class(es)

not available

## 14.4. Packing group

not available

# 14.5. Environmental hazards

not available

# 14.6. Special precautions for user

not available

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

# SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

## 15.2. Chemical safety assessment

not available

## **SECTION 16: Other information**

## Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

## Key to abbreviations and acronyms used in the safety data sheet

ADR

European agreement concerning the international carriage of dangerous goods by road

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BCF	Bioconcentration Factor							
CAS	Chemical Abstracts Service							
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures							
DNEL	Derived no-effect level							
EC	Identification code for each s	Identification code for each substance listed in EINECS						
EC50	Concentration of a substance when it is affected 50% of the population							
EINECS	European Inventory of Existing Commercial Chemical Substances							
EmS	Emergency plan							
EU	European Union							
IATA	International Air Transport Association							
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals							
IC50	Concentration causing 50% blockade							
ICAO	International Civil Aviation Organization							
IMDG	International Maritime Dangerous Goods							
INCI	International Nomenclature of Cosmetic Ingredients							
ISO	International Organization for Standardization							
IUPAC	International Union of Pure and Applied Chemistry							
LCso	Lethal concentration of a substance in which it can be expected death of 50% of the population							
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population							
LOAEC	Lowest observed adverse effect concentration							
LOAEL	Lowest observed adverse eff	ect level						
log Kow	Octanol-water partition coefficient							
MARPOL	International Convention for	the Prevention of Pollution	on From Ships					

NOEL No observed effect level OEL Occupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted no-effect concentration

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

No observed adverse effect concentration

No observed adverse effect level

No observed effect concentration

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN Model

Regulations

UVCB Substances of unknown or variable composition, complex reaction products or biological

materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

## Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

## **Recommended restrictions of use**

not available

NOAEC

NOAFI

NOEC

## Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

# The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS version from 06.03.2017. Changes were made in sections 2, 13, 15 and 16.

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## Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.