

365902/03

# SAFETY DATA SHEET

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

**M - Wave Brake Fluid "mineral"**

Date of creation	11. April 2006	Revision no.	
Date of revision	06. March 2017	Version	1.1

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

- 1.1. Product identifier**  
Substance / mixture M - Wave Brake Fluid "mineral" mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Intended use of the mixture oil into the braking systems of bicycles  
Not recommended use of the mixture not available

### 1.3. Details of the supplier of the safety data sheet

#### Distributor

Name or trade name Messingschlager GmbH  
Address Hassbergstr. 45, Baunach, 96148  
Germany  
Phone +49 9544/944445  
E-mail sa@messingschlager.com  
Web address WWW.messingschlager.com

#### Manufacturer

Name or trade name

Address

Phone  
Fax  
E-mail  
Web address

#### Competent person responsible for the safety data sheet

Name  
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

### 2.1. Classification of the substance or mixture

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

The mixture is classified as dangerous.

Asp. Tox. 1, H304  
Aquatic Chronic 3, H412

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

#### The most serious adverse physico-chemical effects

Unknown

#### The most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

#### Hazard pictogram



#### Signal word

Danger

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### Hazardous substances

Distillates (petroleum), heavy hydrocracked; Baseoil - unspecified; [A complex combination of hydrocarbons from the distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers in the

### Hazard statements

- H304 May be fatal if swallowed and enters airways.  
 H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

- P102 Keep out of reach of children.  
 P273 Avoid release to the environment.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.  
 P331 Do NOT induce vomiting.  
 P405 Store locked up.  
 P501 Dispose of contents/container to in accordance with local regulations.

### Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

### 2.3. Other hazards

Not persistent, bioaccumulative and toxic or very persistent and very bioaccumulative according to the criteria in Annex XIII. Regulation EC (PBT, vPvB). Flammable liquid. Danger of fire if heated above flash point. For long-term, respectively. repeated exposure may cause eye and skin irritation. Prolonged direct contact may cause skin grease removal and subsequent irritation. Inhalation of oil mist may irritate the respiratory system. It is not envisaged that it could cause long-term adverse effects in the environment.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of substances specified below 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.
Index: 649-453-00-1 CAS: 64741-76-0 EC: 265-077-7 Registration number: 01-2119486951-26	Distillates (petroleum), heavy hydrocracked; Baseoil - unspecified; [A complex combination of hydrocarbons from the distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers in the	98	Asp. Tox. 1, H304	2
CAS: 128-37-0 EC: 204-881-4 Registration number: 01-2119480433-40	4-Methyl-2,6-di-(terc)butylfenol	0,25	Aquatic Acute 1, H400. Aquatic Chronic 1, H410	
Index: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 Registration number: 01-2119488216-32	xylene	0,0024	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373	1, 3

### Notes

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

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3 Substance for which exposure limits of Community for working environment exist.  
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

If any health problems are manifested or if in doubt, inform a doctor and show him information from this Safety Data Sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### Inhalation

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

#### Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water; lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment.

#### 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. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

#### Ingestion

DO NOT INDUCE VOMITING! If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Provide medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

#### Inhalation

Possible irritation of airways, cough, headache.

#### Skin contact

Not expected.

#### Eye contact

Not expected.

#### Ingestion

Irritation, nausea.

#### 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

alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist

#### Unsuitable extinguishing media

water - full jet

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

Fire produces heavy, black smoke, with potential development of carbon monoxide and dioxide and other toxic gases. 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. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

### SECTION 6: Accidental release measures

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols.

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**6.2. Environmental precautions**

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

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

**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.

Storage class

12 - Other non-combustible liquids

Content

100, 1000 ml

Type of packaging

bottel

Material of package

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



PE-HD

min 0 °C, max 40 °C

Storage temperature

**7.3. Specific end use(s)**

Refills hydrostatic mechanisms with high mechanical and thermal stresses. Observe instructions on the product label.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

The mixture contains substances for which occupational exposure limits are set.

**European Union**

Name of the substance (component)	Type	Time of exposure	Value	Note	Source
xylene (CAS: 1330-20-7)	OEL	8 hours	221 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	50 ppm		
	OEL	Short-term	442 mg/m <sup>3</sup>		
	OEL	Short-term	100 ppm		

**United Kingdom of Great Britain and Northern Ireland**

Name of the substance (component)	Type	Time of exposure	Value	Note	Source
4-Methyl-2,6-di-(terc)butylfenol (CAS: 128-37-0)	WEL	8 hours	10 mg/m <sup>3</sup>		Gestis
xylene (CAS: 1330-20-7)	WEL	8 hours	220 mg/m <sup>3</sup>		Gestis
	WEL	Short-term	441 mg/m <sup>3</sup>		
	WEL	8 hours	50 ppm		

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### United Kingdom of Great Britain and Northern Ireland

Name of the substance (component)	Type	Time of exposure	Value	Note	Source
xylene (CAS: 1330-20-7)	WEL	Short-term	100 ppm		Gestis

### DNEL

#### 4-Methyl-2,6-di-(terc)butylfenol

Workers / consumers	Route of exposure	Value	Effect	Determining the value of
Workers	Dermal	8.3 mg/kg	Systemic chronic effects	
Workers	Inhalation	5.8 mg/m <sup>3</sup>	Systemic chronic effects	

### PNEC

#### 4-Methyl-2,6-di-(terc)butylfenol

Route of exposure	Value	Determining the value of
Drinking water	0.004 mg/l	
Seawater	0.0004 mg/l	
Microorganisms in wastewater treatment plants	100 mg/l	

## 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

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

### Respiratory protection

Mask with a filter against organic vapours in a poorly ventilated environment.

### Thermal hazard

not available

### Environmental exposure controls

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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state	liquid at 20°C
color	yellow
Odour	characteristic
Odour threshold	data not available
pH	data not available
Melting point/freezing point	-42 °C
Initial boiling point and boiling range	data not available
Flash point	>140 °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	
bottom	0.6 %
upper	6.5 %

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Vapour pressure	<10 Pa at 20 °C
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	>280 °C
Decomposition temperature	data not available
Viscosity	data not available
Kinematic viscosity	9-11 mm <sup>2</sup> /s at 40°C
Explosive properties	data not available
Oxidising properties	data not available
They are not available	

### 9.2. Other information

Density	0.860 g/cm <sup>3</sup> at 15 °C
ignition temperature	data not available
combustion temperature	>160 °C

## 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. Protect against flames, sparks, overheating and against frost.

### 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 products are formed at high temperature and in fire, such as carbon monoxide and carbon dioxide, heavy smoke and nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

#### Acute toxicity

May be fatal if swallowed and enters airways.

#### 4-Methyl-2,6-di-(terc)butylfenol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	OECD 401	>2930 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)	

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Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		5000 mg/kg		Rabbit	
Dermal	LD <sub>50</sub>		3000 mg/kg		Rabbit	

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xylene

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		4300 mg/kg		Rat	
Dermal	LD <sub>50</sub>		3200 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>		21.4 mg/l	4 hour	Rat	

**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**

May be fatal if swallowed and enters airways.

They are not available

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Acute toxicity**

Harmful to aquatic life with long lasting effects.

4-Methyl-2,6-di-(terc)butylfenol

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>		>0.57 mg/l		Fishes (Oncorhynchus mykiss)	
EC <sub>50</sub>	OECD 202	0.61 mg/l	48 hour	Daphnia (Daphnia magna)	
EC <sub>50</sub>		0.39 mg/l	48 hour	Daphnia (Daphnia magna)	
ErC <sub>50</sub>		>0.4 mg/l		Algae (Selenastrum capricornutum)	
NOEC		0.39			

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### 4-Methyl-2,6-di-(terc)butylfenol

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC		0.07 mg/l	21 day	Daphnia (Daphnia magna)	
BCF		230-2500 mg/l	56 day	Fishes (Oncorhynchus mykiss)	
Log Kow		5 mg/kg	0,1 day		

Distillates (petroleum), heavy hydrocracked; Baseoil - unspecified; [A complex combination of hydrocarbons from the distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers in the

Parameter	Method	Value	Time of exposure	Species	Environment
LD50	OECD 203	>100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
NOEL	OECD 203	>100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
NOEL	OECD 201	>100 mg/l	72 hour	Algae (Selenastrum capricornutum)	
EC50	OECD 202	>10000 mg/l	48 hour	Daphnia (Daphnia magna)	
NOEL	OECD 202	>1000 mg/l		Daphnia (Daphnia magna)	

### xylene

Parameter	Method	Value	Time of exposure	Species	Environment
LC50		26.7 mg/l	96 hour	Fishes (Pimephales promelas)	
LC50		86 mg/l	48 hour	Fishes (Oncorhynchus mykiss)	
EC50		165 mg/l	24 hour	Daphnia (Daphnia magna)	

### Chronic toxicity

Distillates (petroleum), heavy hydrocracked; Baseoil - unspecified; [A complex combination of hydrocarbons from the distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers in the

Parameter	Value	Time of exposure	Species	Environment
NOEL	10 mg/l	21 day	Fishes (Oncorhynchus mykiss)	

They are not available

### 12.2. Persistence and degradability

#### Biodegradability

### 4-Methyl-2,6-di-(terc)butylfenol

Parameter	Method	Value	Time of exposure	Environment	Result
		4.5 %	28 day		

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xylene

Parameter	Method	Value	Time of exposure'	Environment	Result
	OECD 301F	87.8 %			Easily biodegradable

The product is not biodegradable.

### 12.3. Bioaccumulative potential

Insignificant.

### 12.4. Mobility in soil

The product is insoluble and mobile in water and soil. 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

### 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 last amended. Council Directive 91/689/EEC on hazardous waste, as last amended. Decision 94/3/EC establishing a list of wastes, as last amended.

#### Code of type of waste

13 01 10 mineral based non-chlorinated hydraulic 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

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### 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

#### A list of standard risk phrases used in the safety data sheet

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container to in accordance with local regulations.

#### 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 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
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 substance listed in EINECS
EC <sub>50</sub>	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
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods

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INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	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 effect level
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
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
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
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

### 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

### 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.

### 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.