

# SAFETY DATA SHEET

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

## M - Wave Wax Guard

Date of creation	31. August 2012	Revision no.	0
Date of revision	08. October 2015	Version	2

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

#### 1.1. Product identifier

Substance / mixture  
Number

M - Wave Wax Guard  
mixture  
200

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

Intended use of the mixture  
Not recommended use of the mixture

bike polish  
The product should not be used in ways other than those referred in Section 1.

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

##### Distributor

Name or trade name  
Address

Messingschlager GmbH  
Hassbergstr. 45, Baunach, 96148  
Germany  
+49 9544/944445  
sa@messingschlager.com  
WWW.messingschlager.com

Phone  
E-mail  
Web address

##### 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.

Aerosol 1, H222, H229  
Asp. Tox. 1, H304  
STOT SE 3, H336  
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

Extremely flammable aerosol. Pressurised container: May burst if heated.

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

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

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### 2.2. Label elements

#### Hazard pictogram



#### Signal word

Danger

#### Hazardous substances

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Uhlovodíky, C8-C9, Isoalkany

#### Hazard statements

- H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

- P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing spray.  
P271 Use only outdoors or in a well-ventilated area.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.  
P501 Dispose of contents/container to in accordance with local regulations.

#### Supplemental information

- EUH 066 Repeated exposure may cause skin dryness or cracking.

### 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.

The calculation method has taken into account the requirements of the CLP Regulation for Aerosol Classification in accordance with 1.1.3.7 of Annex I part 1 of the CLP Regulation, ie the aerosol mixture is assigned to the same hazard category as the non-aerosol mixture (for hazard classes according to sections 3.1 , 3.2, 3.3, 3.4, 3.8 and 3.9 of CLP).

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of substances specified below and additives.

Note on the stated concentration range: These values cover concentrations of substances in the liquid and in the aerosol. Classification calculations for hazard classes other than those listed in section 1.1.3.7 of Annex I, Part 1 of the CLP Regulation are based on the lower values of the concentration ranges.

**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.
EC: 931-254-9 Registration number: 01-2119484651-34	Hydrocarbons, C6, isoalkenes, <5% n-hexane	25-50	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
Index: 601-004-00-0b CAS: 75-28-5 EC: 200-857-2	Isobutane	30-40	Flam. Gas 1, H220 Press. Gas, H280	1, 2
EC: 932-020-9 Registration number: 01-2119548395-31	Uhlovodíky, C8-C9, Isoalkany	10-30	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411	
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	Propane	10-15	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	2
Index: 601-006-00-1 CAS: 109-66-0 EC: 203-692-4 Registration number: 01-2119459286-30-XXXX	pentane	3-7	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411	1, 3
EC: 934-956-3 Registration number: 01-2119827000-58	Uhlovodíky, C15-C20, n-alkany, isoalkany, cyklic, < 0,03% atomat	2-7	Asp. Tox. 1, H304	
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	isopropanol	2-6	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	Butane	1-2	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1, 2
Index: 601-037-00-0 CAS: 110-54-3 EC: 203-777-6 Registration number: 01-2119474209-33	n-hexane	0,5-2	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 2, H411 Specific concentration limit: STOT RE 2, H373: C ≥ 5 %	3

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### Notes

- 1 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.
- 2 When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.)  
Press. Gas (Liq.)  
Press. Gas (Ref. Liq.)  
Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

- 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.

#### 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.

#### 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.

#### Ingestion

At aerosol is not expected.

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

May cause drowsiness or dizziness. Cough, headache.

#### Skin contact

Not expected.

#### Eye contact

When intruding eyes, it can evoke irritation.

#### Ingestion

Irritation, nausea.

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

Symptomatic treatment.

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### 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

The mixture is extremely flammable. 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

Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources; provide sufficient ventilation. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

#### 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

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 the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. No smoking. Protect against direct sunlight. 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

2B - Aerosols

Content

200 + 400 ml

Type of packaging

The aerosol can / pressure vessel

Material of package

FE (40), Steel (Metals)



FE

Storage temperature

min 0 °C, max 40 °C

#### The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

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

Read the information on the product label

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### 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
pentane (CAS: 109-66-0)	OEL	8 hours	3000 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	1000 ppm		
n-hexane (CAS: 110-54-3)	OEL	8 hours	72 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	20 ppm		

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

Name of the substance (component)	Type	Time of exposure	Value	Note	Source
pentane (CAS: 109-66-0)	WEL	8 hours	1800 mg/m <sup>3</sup>		Gestis
	WEL	8 hours	600 ppm		
isopropanol (CAS: 67-63-0)	WEL	8 hours	999 mg/m <sup>3</sup>		Gestis
	WEL	Short-term	1250 mg/m <sup>3</sup>		
	WEL	8 hours	400 ppm		
	WEL	Short-term	500 ppm		
Butane (CAS: 106-97-8)	WEL	8 hours	1450 mg/m <sup>3</sup>		Gestis
	WEL	Short-term	1810 mg/m <sup>3</sup>		
	WEL	8 hours	600 ppm		
	WEL	Short-term	750 ppm		
n-hexane (CAS: 110-54-3)	WEL	8 hours	72 mg/m <sup>3</sup>		Gestis
	WEL	8 hours	20 ppm		

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### DNEL

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Workers / consumers	Route of exposure	Value	Effect	Determining the value of
Workers	Dermal	13964 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	5306 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	1377 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	1131 mg/kg	Systemic chronic effects	
Consumers	Oral	1301 mg/kg bw/day	Systemic chronic effects	

isopropanol

Workers / consumers	Route of exposure	Value	Effect	Determining the value of
Consumers	Oral	26 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	888 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	500 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	319 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	89 mg/m <sup>3</sup>	Systemic chronic effects	

pentane

Workers / consumers	Route of exposure	Value	Effect	Determining the value of
Workers	Dermal	432 mg/kg	Systemic chronic effects	
Workers	Inhalation	3000 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Oral	214 mg/kg	Systemic chronic effects	
Consumers	Dermal	214 mg/kg	Systemic chronic effects	
Consumers	Inhalation	643 mg/m <sup>3</sup>	Systemic chronic effects	

Uhlovodíky, C8-C9, Isoalkany

Workers / consumers	Route of exposure	Value	Effect	Determining the value of
Workers	Dermal	773 mg/kg bw/day		
Workers	Inhalation	2035 mg/m <sup>3</sup>		
Consumers	Dermal	699 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	608 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Oral	699 mg/kg bw/day	Systemic chronic effects	

### PNEC

isopropanol

Route of exposure	Value	Determining the value of
Microorganisms in wastewater treatment plants	2251 mg/l	
Freshwater sediment	552 mg/kg	
Sea sediments	552 mg/kg	
Soil (agricultural)	28 mg/kg	
Seawater	140.9 mg/l	
Freshwater environment	140.9 mg/l	

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pentane

Route of exposure	Value	Determining the value of
Freshwater environment	0.23 mg/l	
Seawater	0.23 mg/l	
Freshwater sediment	1.2 mg/kg	
Sea sediments	1.2 mg/kg	
Soil (agricultural)	0.55 mg/kg	
Water (occasional leak)	0.88 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

Respirator.

#### Thermal hazard

The vessel is under pressure when heated can burst.

#### 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	fluid in the aerosol dispenser (incl. propellant)
Physical state	liquid at 20°C
color	transparent
Odour	characteristic after solvents
Odour threshold	data not available
pH	data not available
Melting point/freezing point	51-61 °C
Initial boiling point and boiling range	-40 °C
Flash point	-80 °C
Evaporation rate	data not available
Flammability (solid, gas)	Extremely flammable aerosol.
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	
bottom	1.1 %
upper	13 %
Vapour pressure	<0.7 MPa at 37.5 °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	-0.24 acetone
Auto-ignition temperature	>230 °C
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available



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They are not available

### 9.2. Other information

Density	0.62 g/cm <sup>3</sup> at 20 °C
ignition temperature	>350 °C (propellant)
content of organic solvents (VOC)	0,9 kg/kg
solid content (dry matter)	0.1 % volume
teplota samovznícení: > 230 °C (uhlovodíky C6) astm e 659 (tato teplota může být výrazně nižší za zvláštních podmínek (pomalá oxidace jemně rozptýleného materiálu).	

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The mixture is 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

Based on available data the classification criteria are not met.

Butane

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Inhalation (gases)	LC <sub>50</sub>		658 ppm	4 hour	Rat	

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	OECD 401	16750 mg/kg bw		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>	OECD 402	3350 mg/kg bw	4 hour	Rabbit	
Inhalation (vapor)	LC <sub>50</sub>	OECD 403	259354 mg/m <sup>3</sup>	4 hour	Rat (Rattus norvegicus)	
Oral	LD <sub>50</sub>		>5000 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>		>3000 mg/kg		Rat (Rattus norvegicus)	
Inhalation (vapor)	LC <sub>50</sub>		>20 mg/l	4 hour	Rat (Rattus norvegicus)	
	Log Pow		4			
	NOELR		3 mg/l	72 hour	Pseudokirchneriella subcapitata	

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### isopropanol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		4570 mg/kg		Rat	
Dermal	LD <sub>50</sub>		13400 mg/kg		Rabbit	
Inhalation (vapor)	LC <sub>50</sub>		72.6 mg/l	4 hour	Rat	
Oral	LD <sub>50</sub>		5280 mg/kg		Rat	
Dermal	LD <sub>50</sub>		12800 mg/kg		Rat	

### M - Wave Wax Guard

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		>2000 mg/kg		Rabbit	

### n-hexane

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		>16000 mg/kg bw			
Dermal	LD <sub>50</sub>		>20000 mg/kg bw			
Inhalation	LC <sub>50</sub>		>17600 mg/m <sup>3</sup>		Rat	
Dermal	LD <sub>50</sub>		>2000 mg/kg		Rat (Rattus norvegicus)	
Inhalation (gases)	LC <sub>50</sub>		31.86 ppm	4 hour	Rat (Rattus norvegicus)	

### pentane

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		16000 mg/kg		Rat	
Dermal	LD <sub>50</sub>		2500 mg/kg		Rat	
Dermal	LD <sub>50</sub>		5000 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>		100 mg/m <sup>3</sup>	4 hour	Rat	

### Uhlovodíky, C15-C20, n-alkany, isoalkany, cyklic, < 0,03% atomat

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Dermal	LD <sub>50</sub>	OECD 402	>3160 mg/kg	24 hour	Rabbit	
Inhalation (aerosols)	LC <sub>50</sub>	OECD 403	5266 mg/m <sup>3</sup>	4 hour	Rat (Rattus norvegicus)	
Oral	DL <sub>50</sub>	OECD 401	>5000 mg/kg bw/day		Rat (Rattus norvegicus)	

### Uhlovodíky, C8-C9, Isoalkany

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	OECD 401	>7100 mg/kg bw			
Dermal	LD <sub>50</sub>		>2200 mg/kg	24 hour	Rabbit	
Inhalation (vapor)	LC <sub>50</sub>	OECD 403	17300-23300 mg/m <sup>3</sup>	4 hour	Rat (Rattus norvegicus)	

### 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.

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### 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

May cause drowsiness or dizziness.

### 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

Harmful to aquatic life with long lasting effects.

Butane

Parameter	Method	Value	Time of exposure	Species	Environment
Log Pow		2.89			

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Parameter	Method	Value	Time of exposure	Species	Environment
ErL <sub>50</sub>		13.6 mg/l	72 hour	Pseudokirchneriella subcapitata	
EL <sub>50</sub>		31.9 mg/l	48 hour	Daphnia (Daphnia magna)	

isopropanol

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>		6550 mg/l	96 hour	Fishes	
EC <sub>50</sub>		>100 mg/l	48 hour	Daphnia	
EC <sub>50</sub>		>100 mg/l	72 hour	Algae	
LD <sub>50</sub>		>100 mg/l	48 hour	Fishes (Leuciscus idus)	

n-hexane

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>		2.5 mg/l		Fishes (Oncorhynchus mykiss)	

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### n-hexane

Parameter	Method	Value	Time of exposure	Species	Environment
EC <sub>50</sub>		50 mg/kg		Other aquatic organisms	
EC <sub>50</sub>		2.1 mg/l	48 hour	Daphnia (Daphnia magna)	
Log Pow		3.9			

### pentane

Parameter	Method	Value	Time of exposure	Species	Environment
		9.74 mg/l	48 hour	Daphnia (Daphnia magna)	
Log Pow		3.39			

### Uhlovodíky, C15-C20, n-alkany, isoalkany, cyklic, < 0,03% atomat

Parameter	Method	Value	Time of exposure	Species	Environment
ErL <sub>50</sub>	ISO 10253	>10000 mg/kg	72 hour	Algae (Selenastrum capricornutum)	
LL <sub>50</sub>		>3193 mg/l	48 hour	Invertebrates (Acartia tonsa)	
LL <sub>50</sub>		1028 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	

### Uhlovodíky, C8-C9, Isoalkany

Parameter	Method	Value	Time of exposure	Species	Environment
ErL <sub>50</sub>	OECD 201	10-30 mg/l	72 hour	Algae (Selenastrum capricornutum)	
EbL <sub>50</sub>	OECD 201	10-30 mg/l	72 hour	Algae (Selenastrum capricornutum)	
NOELR	OECD 201	6.3 mg/l	72 hour	Algae (Selenastrum capricornutum)	
EL <sub>50</sub>		2.4 mg/l	48 hour	Daphnia (Daphnia magna)	
LL <sub>50</sub>	OECD 203	18.4 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
NOELR	OECD 211	1 mg/l	21 day	Daphnia (Daphnia magna)	
NOELR		0.46 mg/l	28 day	Oncorhynchus mykiss	

### Chronic toxicity

#### Hydrocarbons, C6, isoalkenes, <5% n-hexane

Parameter	Value	Time of exposure	Species	Environment
NOEL	7.14 mg/l	21 hour	Daphnia (Daphnia magna)	
NOEL	4.09 mg/l	28 day	Fishes (Oncorhynchus mykiss)	

Data not available

### 12.2. Persistence and degradability

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### Biodegradability

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Parameter	Value	Time of exposure	Environment	Result
	98 %	28 day		

isopropanol

Parameter	Value	Time of exposure	Environment	Result
	53 %	5 day		

pentane

Parameter	Value	Time of exposure	Environment	Result
	96 %	28 day		

Uhlovodíky, C15-C20, n-alkany, isoalkany, cyklic, < 0,03% atomat

Parameter	Value	Time of exposure	Environment	Result
	74 %	28 day		

Uhlovodíky, C8-C9, Isoalkany

Parameter	Value	Time of exposure	Environment	Result
	22 %	28 day		
	60 %	60 day		

The product is not biodegradable.

### 12.3. Bioaccumulative potential

Hydrocarbons, C6, isoalkenes, <5% n-hexane

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	3.6				

isopropanol

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF	3				

pentane

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF	171				

Insignificant.

### 12.4. Mobility in soil

isopropanol

Parameter	Value	Environment	Surrounding temperature
Log Pow	0.05		
Koc	1.5		

Not available.

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### 12.5. Results of PBT and vPvB assessment

The product is not classified as PBT or vPvB.

### 12.6. Other adverse effects

not available

## 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 amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Code of type of waste

- 14 06 03 other solvents and solvent mixtures
- 16 05 04 gases in pressure containers (including halons) containing dangerous substances

#### Code of type of waste packaging

- 15 01 10 packaging containing residues of or contaminated by dangerous substances
- 15 01 04 metallic packaging

## SECTION 14: Transport information

### 14.1. UN number

UN 1950

### 14.2. UN proper shipping name

AEROSOLS

### 14.3. Transport hazard class(es)

2 Gases

### 14.4. Packing group

not available

### 14.5. Environmental hazards

not available

### 14.6. Special precautions for user

Reference in Sections 4 to 8.

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

Not applicable

#### Additional information

Transport on vehicles that do not have separate cargo space from the driver's compartment. Make sure that the vehicle driver is aware of the potential hazards of the load and knows what to do in case of accident or danger.

The hazard identification number

UN number

Classification code

Safety signs

(Kernler Code)

1950

5F

2.1



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### Road transport ADR

Special provision	190, 327, 344, 625
Limited amount	1 L

### Packaging

Packaging instruction	P207, LP02
Special provision for packaging	PP87, RR6, L2
Packing provisions	MP9
Transport category	2
Tunnel restriction code	D

### Special provision for

transport of pieces	V14
loading, unloading and manipulation	CV9, CV12

### Railway transport - RID

Special provision	190, 327, 344, 625
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### Packaging

Packaging instruction	P207, LP02
Special provision for packaging	PP87, RR6, L2
Packing provisions	MP9
Transport category	0

### Special provision for

transport of pieces	W 14
loading, unloading and manipulation	CW 9, CW 12

### Marine transport - IMDG

EmS (emergency plan)	F-D, S-U
MFAG	620
Marine pollution	No

## 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).

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

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

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

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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.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing spray.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501 Dispose of contents/container to in accordance with local regulations.

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

EUH 066 Repeated exposure may cause skin dryness or cracking.

### 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
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
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 K <sub>ow</sub>	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



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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

Aerosol	Flammable aerosol
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Repr.	Reproductive toxicity
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.