Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Multi-Light 10W40

Version: 5 / WORLD Replaces Version: 4 / WORLD Date revised: 19.12.2022 Print date: 23.12.22

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

# 1.1. Product identifier

Multi-Light 10W40 (Art.No. 26000)

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

# Use of the substance/preparation

Engine oil

#### Uses advised against

\_\_\_\_\_

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

## Address/Manufacturer

EMKA Schmiertechnik GmbH Schmalbachstraße 19 74626 Bretzfeld-Schwabbach Phone: + 49 (0)7946 944700 Information provided

E-mail address of info@emka-oil.de person responsible for this SDS

# 1.4. Emergency telephone number

+49 (0)551 19240 (24h/EN/DE) GIZ

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Voluntary product information following the Safety Data Sheet format This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

# 2.2. Label elements

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# Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

#### 2.3. Other hazards

Product can form a film on the water surface that can prevent oxygen exchange. Refer to section 11, 12 and 15.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Other information

Mixtures are not subject to registration. This mixture does not include any ingredients that have been classified to be hazardous whose concentrations exceed the limit values described in point 3.2.2 (Annex II, Regulation 1907/2006/EC.

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

#### General information

In case of persistent symptoms consult doctor. Remove soiled or soaked clothing immediately, do not allow to dry. Never give anything by mouth to an unconscious person.

#### After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

#### After skin contact

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists. Remove contaminated clothing.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

#### After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately.

#### Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

**4.2. Most important symptoms and effects, both acute and delayed** Until now no symptoms known so far.

# 4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam, Dry powder, Carbon dioxide, Water spray jet

# Non suitable extinguishing media

Full water jet

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

In the event of fire the following can be released: Pyrolysis products; Hydrocarbons; Carbon dioxide

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(CO2); Carbon monoxide (CO); Hydrogen sulfide (H2S); Nitrogen oxides (NOx); Phosphorus oxides; Smoke.

# 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus. Wear full protective suit. Do not allow run-off from fire fighting to enter drains or water courses.

# **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation. Exclude sources of ignition and ventilate the area. Avoid contact with skin, eyes and clothing. High risk of slipping due to leakage/spillage of product. Avoid breathing vapours.

#### 6.2. Environmental precautions

Do not allow to enter drains or waterways. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked up, treat material as prescribed under Section 13 "Disposal".

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid formation of oil dust. Hot product develops flammable vapours. Handle and open container with care. Avoid skin and eye contact.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Do not smoke. Take action to prevent static discharges.

# 7.2. Conditions for safe storage, including any incompatibilities

Recommended sto	orage temperatu	ire		
Value	<	50	°C	
<b>Requirements for</b> s Keep only in origin	•	and vessels		
Hints on storage a Keep away from fla	•	ces.		
Storage class acco	ording to TRGS	510		
Storage class acco TRGS 510	ording to 10	Flammable liquids	i	
Further informatio Keep container tig	•	nditions /. Keep in a cool place		
7.3. Specific end use see product inform				
SECTION 8: Expos	ure controls	/personal protect	ion	

# 8.1. Control parameters

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#### Other information

There are not known any further control parameters.

#### 8.2. Exposure controls

#### Exposure controls

Technical measures for preventing exposition. Organisational measures for preventing exposition. Provide adequate ventilation. The type of personal protective equipment must be selected depending on the concentration and quantity of the hazardous substance at the workplace.

#### General protective and hygiene measures

Observe the usual precautions for handling chemicals. Store work clothing separately. Wash hands before breaks and after work. Cloths contaminated with product should not be kept in trouser pockets. Do not eat, drink or smoke during work time.

#### **Respiratory protection**

Not necessary, but do not inhale vapours. In situations where misting or flying may occur use appropriate certified respirators. Short term: filter apparatus, Filter A/P2

#### Hand protection

For this purpose, protective gloves are suitable, for instance, made by the company KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail: vertrieb@kcl.de with the following specification (tested as per EN374):

Camatril (Item No: 731; Material: Nitrile; Minimum layer thickness: 0.33 mm; Burst time: 480 min) Dermatril (Item No: 740; Material: Nitrile; Minimum layer thickness: 0.11 mm; Burst time: 30 min) The protective gloves to be used must comply with the specifications of the EU directive 89/686/EEC and the standard EN374 derived from it. The above mentioned burst times are based on laboratory measurements of KCL made as per EN 374 and a re applicable only for this KCL product. Preventive skin protection by protective skin ointment.

#### Eye protection

Tightly fitting safety glasses

#### Body protection

Clothing as usual in the chemical industry. Protective gloves resistant to chemicals

# **SECTION 9: Physical and chemical properties**

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

Form		liquid		
Coloui	r	brown	1	
Odour		chara	cteristic	
Melting	g point			
Rem	narks	not de	etermined	
Freezi	ng point			
Rem	narks	not de	etermined	
Initial I	boiling point and boilir	ng rang	e	
Valu	e	>	320	°C
	n <b>ability (solid, gas)</b> applicable			
Upper/	lower flammability or	explosi	ve limits	
	er explosion limit		0,6	%(V)
Upp	er explosion limit		6,5	%(V)
Flash	point			
Valu	e	>	220	°C

Method       DIN ISO 2592         Pour Point       -33       °C         Method       DIN/ISO 3016       "C         Ignition temperature       Remarks       not determined         Remarks       not determined	rade name: Multi-Light 10W40					
Method       DIN ISO 2592         Pour Point       -33       *C         Wale       -33       *C         Ignition temperature       Remarks       not determined         Remarks       not determined       Decomposition temperature         Remarks       not determined       Pf value         Remarks       Not applicable       Viscosity         Viscosity       101       mm*/s         Value       101       mm*/s         Temperature       40       *C         Value       15.1       mm*/s         Temperature       100       *C         Solubility(ies)       Remarks       not determined         Partition coefficient: n-octanol/water       mm*/s       Temperature         Remarks       not determined       Density         Value       0.855       to       0.865       g/cm*         Remarks       not determined       Partition characteristics       g/cm*         Remarks       not		Version: 5	/ WOR	LD		Date revised: 19.12.202
Pour Point       -33       "C         Wathood       DIN/ISO 3016       "C         Ignition temperature       Remarks       not determined         Decomposition temperature       Remarks       not determined         PH value       not determined       Personal State         Remarks       Not applicable       Imm7/s         Viscosity       Imm7/s       Imm7/s         kinematic       101       mm7/s         Value       15,1       mm7/s         Temperature       100       "C         Solubility(ies)       Remarks       not determined         Remarks       not determined       Imm7/s         Remarks       not determined       Imm7/s         Vapour pressure       Remarks       not determined         Remarks       not determined       Imm7/s         Vapour pressure       0,855       to       0,865       g/cm3         Temperature       15       "C       Imm7/s       Imm7/s         Temperature       0,855       to       0,865       g/cm3       Imm7/s         Remarks       not determined       Imm7/s       Imm7/s       Imm7/s       Imm7/s         Temperature       15		Replaces \	/ersion:	4 / WORL	D	Print date: 23.12.2
Pour Point       -33       "C         Walue       -33       "C         Method       DIN/ISO 3016	Method	DIN ISO 2592				
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Decomposition temperature       Not determined         Remarks       Not applicable         PH value       Not applicable         Remarks       Not applicable         Viscosity       Immedia         kinematic       101       mm <sup>2</sup> /s         Temperature       400       °C         kinematic       15,1       mm <sup>2</sup> /s         Yalue       15,1       mm <sup>2</sup> /s         Temperature       100       °C         Solubility(ies)       mm <sup>2</sup> /s       mm <sup>2</sup> /s         Remarks       not determined       mm <sup>2</sup> /s         Partition coefficient: n-octanol/water       remeraks       g/m <sup>2</sup> /s         Remarks       not determined       g/m <sup>2</sup> /s         Density       Value       0,855       to       0,865       g/m <sup>2</sup> /s         Value       0,855       to       0,865       g/m <sup>2</sup> /s       g/m <sup>2</sup> /s         Value       0,855       to       0,865       g/m <sup>2</sup> /s       g/m <sup>2</sup> /s         Value       0,855       to       0,865       g/m <sup>2</sup> /s       g/m <sup>2</sup> /s         Particle characteristics       Remarks       not determined       g/m <sup>2</sup> /s       g/m <sup>2</sup> /s       g/m <sup>2</sup> /s         Secction 10:       Stabilit	•					
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kinematic       101       mm²/s         Yalue       101       mm²/s         Temperature       40       °C         Walue       15,1       mm²/s         Temperature       100       °C         Solubility(ies)       remarks       vitually insoluble         Partition coefficient: n-octanol/water       mm²/s         Remarks       not determined         Vapour pressure       Remarks         Remarks       not determined         Density       Value       0,855         Value       0,855       to       0,865         Particle characteristics       remarks       not determined         Particle characteristics       Remarks       not determined         Particle characteristics       Remarks       not determined         Particle characteristics       Remarks       Not applicable         92. Other information       Not applicable       SECTION 10: Stability and reactivity         101. Reactivity       No hazardous reactions when stored and handled according to prescribed instructions.         Stable under recommended storage and handling conditions (see section 7).       10.3. Possibility of hazardous reactions         House of flammable mixtures possible in air when heated above flash point and/or during spraying o mist		Not applicable				
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Temperature       40       °C         kinematic       15,1       mm³/s         Yalue       15,1       mm³/s         Temperature       100       °C         Solubility(ies)       Remarks       virtually insoluble         Partition coefficient: n-octanol/water       mm³/s         Remarks       virtually insoluble         Partition coefficient: n-octanol/water       remarks         Remarks       not determined         Vapour pressure       remarks         Remarks       not determined         Density       Value         Value       0,855       to         Value       0,855       to         Vapour density       remerks       not determined         Particle characteristics       remarks       Not applicable         92. Other information       Not applicable       SECTION 10: Stability and reactivity         None known       SECTION 10: Stability and reactivity       No hazardous reactions when stored and handled according to prescribed instructions.         101. Reactivity       No hazardous reactions when stored and handled according to prescribed instructions.         103. Possibility of hazardous reactions       see section 7).         103. Possibility of faarmable mixtures possible in air when heated	kinematic					
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Remarks       Not applicable         9.2. Other information       Other information         Other information       None known         SECTION 10: Stability and reactivity         10.1. Reactivity         No hazardous reactions when stored and handled according to prescribed instructions.         10.2. Chemical stability         Stable under recommended storage and handling conditions (see section 7).         10.3. Possibility of hazardous reactions         Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying o misting.	Remarks	not determined				
<ul> <li>9.2. Other information Other information None known</li> <li>SECTION 10: Stability and reactivity</li> <li>10.1. Reactivity No hazardous reactions when stored and handled according to prescribed instructions.</li> <li>10.2. Chemical stability Stable under recommended storage and handling conditions (see section 7).</li> <li>10.3. Possibility of hazardous reactions Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying o misting.</li> </ul>	Particle characteristics					
Other information None known         SECTION 10: Stability and reactivity         10.1. Reactivity No hazardous reactions when stored and handled according to prescribed instructions.         10.2. Chemical stability Stable under recommended storage and handling conditions (see section 7).         10.3. Possibility of hazardous reactions Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying o misting.	Remarks	Not applicable				
None known         SECTION 10: Stability and reactivity         10.1. Reactivity         No hazardous reactions when stored and handled according to prescribed instructions.         10.2. Chemical stability         Stable under recommended storage and handling conditions (see section 7).         10.3. Possibility of hazardous reactions         Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying o misting.	9.2. Other information					
None known         SECTION 10: Stability and reactivity         10.1. Reactivity         No hazardous reactions when stored and handled according to prescribed instructions.         10.2. Chemical stability         Stable under recommended storage and handling conditions (see section 7).         10.3. Possibility of hazardous reactions         Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying o misting.	Other information					
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<ul> <li>10.2. Chemical stability         Stable under recommended storage and handling conditions (see section 7).</li> <li>10.3. Possibility of hazardous reactions         Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying o         misting.</li> </ul>		n stored and handled	l accord	ina to pres	cribed instru	uctions.
<ul> <li>Stable under recommended storage and handling conditions (see section 7).</li> <li><b>10.3. Possibility of hazardous reactions</b>         Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying o misting.     </li> </ul>				5 1		
Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying o misting.		storage and handling	conditio	ons (see se	ection 7).	
Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying o misting.	10.3. Possibility of hazardous	reactions				
10.4. Conditions to avoid	Evolution of flammable mixtur		ien heat	ed above f	lash point a	nd/or during spraying or
Oxidising agents	10.4. Conditions to avoid					

Safety data sheet in accordance with regulation (EC) No 1907/2006 Trade name: Multi-Light 10W40 Version: 5 / WORLD Date revised: 19.12.2022 Replaces Version: 4 / WORLD Print date: 23.12.22 Remarks not determined 10.6. Hazardous decomposition products Refer to section 5.3. **SECTION 11: Toxicological information** 11.1. Information on toxicological effects Acute oral toxicity Remarks Based on available data, the classification criteria are not met. Acute dermal toxicity Based on available data, the classification criteria are not met. Remarks Acute inhalational toxicity Remarks Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Remarks Remarks Frequent persistent contact with the skin can cause skin irritation. Serious eye damage/irritation Remarks Based on available data, the classification criteria are not met. Sensitization Remarks Based on available data, the classification criteria are not met. Mutagenicity Remarks Based on available data, the classification criteria are not met. **Reproductive toxicity** Remarks Based on available data, the classification criteria are not met. Carcinogenicity Remarks Based on available data, the classification criteria are not met. Specific Target Organ Toxicity (STOT) Remarks Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met. 11.2 Information on other hazards Endocrine disrupting properties with respect to humans The product does not contain a substance that has endocrine disrupting properties with respect to humans. Other information There are no data available on the mixture itself. It was classified in accordance with the calculation method of the directive (EC) No. 1272/2008 [CLP].

# **SECTION 12: Ecological information**

# 12.1. Toxicity

#### **General information**

There are no data available on the mixture itself. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

# 12.2. Persistence and degradability

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#### **General information**

There are no data available on the mixture itself.

#### **Biodegradability**

Remarks

The product is not readily biodegradable according to OECD criteria but is inherently biodegradable.

#### 12.3. Bioaccumulative potential

#### **General information**

There are no data available on the mixture itself.

#### Partition coefficient: n-octanol/water

not determined

# Remarks 12.4. Mobility in soil

#### **General information**

There are no data available on the mixture itself.

#### 12.5. Results of PBT and vPvB assessment

#### Evaluation of persistance and bioaccumulation potential

The product contains no PBT or vPvB substances.

#### 12.6. Other adverse effects

#### Endocrine disrupting properties with respect to the envrionment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

#### 12.7. Other adverse effects

#### General information / ecology

Do not discharge product unmonitored into the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code 13 02 05\* mineral-based non-chlorinated engine, gear and lubricating oils

Dispose of as hazardous waste.

The waste code numbers/waste designations are to be assigned in accordance with EWC with reference to industrial fields and processes.

Dispose of waste according to applicable legislation.

#### **Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off as product waste. Uncontaminated packaging may be taken for recycling. Completely emptied packagings can be given for recycling.

# **SECTION 14: Transport information**

#### Land transport ADR/RID

The product does not constitute a hazardous substance in land transport.

- 14.1. UN number
- UN -
- 14.2. UN proper shipping name

ade name: Multi-Light 10W40		
	Version: 5 / WORLD	Date revised: 19.12.202
	Replaces Version: 4 / WORLD	Print date: 23.12.2
14.3. Transport hazard class(es)		
Class	-	
14.4. Packing group		
Packing group	-	
14.5. Environmental hazards		
Marine transport IMDG/GGVSe	0	
	e a hazardous substance in sea transport.	
14.1. UN number		
UN -		
14.2. UN proper shipping name		
-		
14.3. Transport hazard class(es)		
Class	-	
14.4. Packing group		
Packing group	-	
Air transport ICAO/IATA		
	e a hazardous substance in air transport.	
14.1. UN number	· ·	
UN -		
14.2. UN proper shipping name		
- 14.3. Transport hazard class(es)		
Class	-	
14.4. Packing group		
Packing group	-	
14.5. Environmental hazards		
nformation for all modes of tr	nonort	
nformation for all modes of tra 14.6. Special precautions for use		
The relevant transport regulation		
The relevant transport regulate		

# **SECTION 15: Regulatory information**

#### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

# **SECTION 16: Other information**

#### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\* This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.