

Page 1 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

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MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Motor oil

Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (LMR)

+1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)

EUH210-Safety data sheet available on request.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).



Page 2 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. **3.2 Mixtures**

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3.2 Mixtures	
Distillates (petroleum), hydrotreated heavy paraffinic	
Registration number (REACH)	01-2119484627-25-XXXX
Index	649-467-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	265-157-1
CAS	64742-54-7
content %	<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed light paraffinic	
Registration number (REACH)	01-2119480132-48-XXXX
Index	649-469-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	265-159-2
	64742-56-9
CAS	
content %	<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed heavy paraffinic	
Registration number (REACH)	01-2119471299-27-XXXX
Index	649-474-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	265-169-7
CAS	64742-65-0
content %	<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
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Distillates (petroleum), hydrotreated light paraffinic	
Registration number (REACH)	01-2119487077-29-XXXX
Index	649-468-00-3
EINECS, ELINCS, NLP, REACH-IT List-No.	265-158-7
CAS	64742-55-8
content %	<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
Classification according to Regulation (EC) 1212/2008 (CLP), M-14Clors	Asp. Tox. 1, 11304
Distillates (petroleum), solvent-refined light paraffinic	
Registration number (REACH)	01-2119487067-30-XXXX
	649-455-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	265-091-3
CAS	64741-89-5
content %	<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
Paraffin oils (petroleum), catalytic dewaxed heavy	
Registration number (REACH)	01-2119487080-42-XXXX
Index	649-477-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	265-174-4
CAS	64742-70-7
content %	<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
	, . .
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	
Registration number (REACH)	01-2119543726-33-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	298-577-9
CAS content %	93819-94-4 0,1-<2,5



Page 3 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Aquatic Chronic 2, H411
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=6,25 %
	Eye Dam. 1, H318: >=12,5 %
	Eye Irrit. 2, H319: >=10 %

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

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Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

The following may occur: Irritation of the eyes Drying of the skin. Dermatitis (skin inflammation) On vapour formation: Irritation of the respiratory tract Ingestion: Nausea Vomiting Diarrhoea

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 CO2 Foam Dry extinguisher

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon

Oxides of carbon Oxides of phosphorus Oxides of sulphur



Page 4 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

Oxides of nitrogen Toxic gases

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5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Fill the absorbed material into lockable containers.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Avoid formation of oil mist.

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin.

Do not carry cleaning cloths soaked in product in trouser pockets.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Do not heat to temperatures close to flash point.

Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Under all circumstances prevent penetration into the soil.

Store at room temperature.



Page 5 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

Store in a dry place. 7.3 Specific end use(s)

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No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name Oil mist, minera			
WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal	WEL-STEL:		
working fluids, ACGIH)			
Monitoring procedures: -	Draeger - Oil Mist 1/a (67 33 031)		
BMGV:		Other information:	

Distillates (petroleum), hydrotreated heavy paraffinic								
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note		
	Environment - oral (animal feed)		PNEC	9,33	mg/kg			
Consumer	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m3			
Consumer	Human - oral	Long term, systemic effects	DNEL	0,74	mg/kg			
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,58	mg/m3			
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,97	mg/kg			
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,73	mg/m3			

Distillates (petroleum), solvent-dewaxed light paraffinic								
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note		
	Environmental							
	compartment							
	Environment - oral (animal		PNEC	9,33	mg/kg feed			
	feed)							

Distillates (petroleum), solvent-dewaxed heavy paraffinic								
Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note		
	compartment							
	Environment - oral (animal feed)		PNEC	9,33	mg/kg feed			
Consumer	Human - inhalation	Long term, local effects	DNEL	1,19	mg/m3			
Consumer	Human - oral	Long term, systemic effects	DNEL	0,74	mg/kg bw/d			
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,58	mg/m3			
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,73	mg/m3			
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,97	mg/kg bw/d			

Distillates (petroleum), hydrotreated light paraffinic								
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note		
	Environmental		-					
	compartment							
	Environment - oral (animal feed)		PNEC	9,33	mg/kg feed			



Page 6 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

Consumer	Human - inhalation	Long term, local effects	DNEL	1,19	mg/m3
Consumer	Human - oral	Long term, systemic	DNEL	0,74	mg/kg
		effects			bw/day
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,6	mg/m3
Workers / employees	Human - dermal	Long term, systemic	DNEL	0,97	mg/kg
		effects			bw/day
Workers / employees	Human - inhalation	Long term, systemic	DNEL	2,7	mg/m3
		effects			

Distillates (petroleum), solvent-refined light paraffinic								
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note		
	Environmental							
	compartment							
Consumer	Human - inhalation	Short term, local	DNEL	1,2	mg/m3			
		effects						
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,4	mg/m3			

Paraffin oils (petroleum), catalytic dewaxed heavy								
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note		
	Environmental							
	compartment							
	Environment - oral (animal		PNEC	9,33	mg/kg			
	feed)							

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	0.004	mg/l	
	Environment - marine		PNEC	0,0046	mg/l	
	Environment - sediment, freshwater		PNEC	0,012	mg/kg dw	
	Environment - sediment, marine		PNEC	0,001	mg/kg dw	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - soil		PNEC	0,005	mg/kg dw	
	Environment - oral (animal feed)		PNEC	10,67	mg/kg feed	
	Environment - water, sporadic (intermittent) release		PNEC	21	µg/l	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,11	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,29	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,24	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	8,31	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,58	mg/kg bw/d	

Distillates (petroleum), hydrotreated heavy paraffinic								
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note		
	Environmental		-					
	compartment							
	Environment - oral (animal		PNEC	9,33	mg/kg feed			
	feed)							



Page 7 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

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Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection: Protective gloves, oil resistant (EN ISO 374). If applicable Protective Neoprene® / polychloroprene gloves (EN ISO 374). Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,4 Permeation time (penetration time) in minutes: > 480 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended. Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary. If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.



Page 8 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Dhuning Laterty	n provident de la companya de la com
Physical state:	Liquid
Colour:	Brown
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	Flammable
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	230 °C
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	130,0 mm2/s (40°C)
Kinematic viscosity:	18,0 mm2/s (100°C)
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	0,865 g/cm3
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.
9.2 Other information	
Explosives:	There is no information available on this parameter.
Oxidising liquids:	There is no information available on this parameter.
	ritoro io no information avaliable on trito parameter.

SECTION 10: Stability and reactivity

 10.1 Reactivity The product has not been tested. 10.2 Chemical stability Stable with proper storage and handling. 10.3 Possibility of hazardous reactions No dangerous reactions are known. 10.4 Conditions to avoid See also section 7. Strong heat 10.5 Incompatible materials See also section 7. Avoid contact with strong oxidizing agents. 10.6 Hazardous decomposition products See also section 5.2 No decomposition when used as directed.	
SECTION 11: Toxicological information	

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008



Page 9 of 21 Safety data sheet according to Re Revision date / version: 07.09.20 Replacing version dated / version Valid from: 07.09.2022	22 / 0017		5, Annex II			
PDF print date: 07.09.2022						
	EW EO					
MoS2 Leichtlauf Super Motoroil 1 Super Low Friction Motor Oil MoS						
	52 1500-50					
Possibly more information on hea MoS2 Leichtlauf Super Motoroi	il 15W-50	e Section 2.1 (classification).			
Super Low Friction Motor Oil N						••
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation: Serious eye damage/irritation:						n.d.a. n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						11.u.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:	1			1		n.d.a.
Reproductive toxicity:		1				n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						<u> </u>
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
Distillator (notroloum) budgets	acted because					
Distillates (petroleum), hydrotre Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 420 (Acute Oral	Analogous
Acute toxicity, by oral route.	LD30	>3000	iiig/kg	Nai	toxicity - Fixe Dose	conclusion
					Procedure)	conclusion
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	Analogous
	2000	20000	iiig/iig	Rabbit	Dermal Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute	Aerosol,
, , , , , , , , , , , , , , , , , , ,		- ,	J. A		Inhalation Toxicity)	Analogous
						conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant,
					Irritation/Corrosion)	Analogous
						conclusion
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact),
						Analogous
Corm coll mutogonicity				Salmonella	OECD 471 (Bacterial	conclusion
Germ cell mutagenicity:				typhimurium	Reverse Mutation Test)	Negative, Analogous
				yprinnunun		conclusion
Germ cell mutagenicity:				+	OECD 473 (In Vitro	Negative,
connicon matagementy.					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	Chinese hamste
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative,
<u> </u>					Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative,
					Erythrocyte	Analogous
					Micronucleus Test)	conclusion
Carcinogenicity:				Mouse	OECD 451	Negative,
					(Carcinogenicity Studies)	Analogous
						conclusion 78
						weeks, dermal
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative,
(Developmental toxicity):					Developmental Toxicity	Analogous
	1				Study)	conclusion
						dermal



Page 10 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

			Rat	OECD 421	Negative,
					Analogous
				ental Toxicity Screening	conclusion oral
				Test)	
					Asp. Tox. 1
LOAEL	125	mg/kg	Rat	OECD 408 (Repeated	Analogous
				Dose 90-Day Oral	conclusion
				Toxicity Study in	
				Rodents)	
					gastrointestinal
					disturbances,
					diarrhoea
NOAEL	1000	mg/kg	Rabbit	OECD 410 (Repeated	Analogous
				Dose Dermal Toxicity -	conclusion
				90-Day)	
NOAEL	0,22	mg/l	Rat		Dust, Mist,
		-			Analogous
					conclusion 4
					weeks
	NOAEL	NOAEL 1000	NOAEL 1000 mg/kg	LOAEL 125 mg/kg Rat NOAEL 1000 mg/kg Rabbit	Image: NOAEL 1000 mg/kg Rat OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) NOAEL 1000 mg/kg Rabbit OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion Chinese hamste
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Reproductive toxicity:	NOAEL	>1000	mg/kg bw/d	Rat	OECD 421 (Reproduction/Developm ental Toxicity Screening Test)	Negative
Reproductive toxicity:	NOAEL	>2000	mg/kg bw/d	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	
Aspiration hazard:						Yes
Symptoms:						drying of the skin., vomiting, nausea
Distillates (petroleum), solven	t-dewaxed hea	wy paraffinic				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	



Page 11 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

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Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	>5,53	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Analogous conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant, Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion Chinese hamste
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:				Mouse	OECD 451 (Carcinogenicity Studies)	Negative, Analogous conclusion 78 weeks, dermal
Reproductive toxicity (Developmental toxicity):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion dermal
Carcinogenicity:				Mouse		Female, Negativ
Reproductive toxicity:				Rat		Negative
Reproductive toxicity (Effects on fertility):				Rat	OECD 421 (Reproduction/Developm ental Toxicity Screening Test)	Negative, Analogous conclusion oral, dermal
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	~1000	mg/kg bw/d	Rabbit	OEĆD 410 (Repeated Dose Dermal Toxicity - 90-Day)	Analogous conclusion
Aspiration hazard:						Yes
Symptoms:						mucous membrane irritation, dizziness, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	30	mg/kg/d	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,22	mg/l	Rat		Aerosol, Analogous conclusion 4 weeks
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,15	mg/l	Rat		Aerosol, Analogous conclusion 13 weeks



Page 12 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	Analogous
A suite to delta har de marel asutes		5000		Dahhit	Toxicity)	conclusion
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	Analogous
					Dermal Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute	Aerosol,
					Inhalation Toxicity)	Analogous
						conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
Sorious ave demoge/irritation				Dahhit	OECD 405 (Acute Eye	Not irritant.
Serious eye damage/irritation:				Rabbit		,
					Irritation/Corrosion)	Analogous
						conclusion
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact),
					,	Analogous
						conclusion
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
Germ cell mutagenicity.						
				typhimurium	Reverse Mutation Test)	Analogous
						conclusion
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusionChine
					Aberration Test)	e hamster
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative,
(Developmental toxicity):					Developmental Toxicity	Analogous
<u> </u>				- N4	Study)	conclusion
Carcinogenicity:				Mouse	OECD 451	Negative,
					(Carcinogenicity Studies)	Analogous
						conclusionderma
Reproductive toxicity:	NOAEL	1000	mg/kg	Rat	OECD 421	Analogous
			bw/d		(Reproduction/Developm	conclusionderma
					ental Toxicity Screening	
					Test)	
Aspiration hazard:					1030	Yes
		125		Det	OFCD 400 (Dependent	
Specific target organ toxicity -	NOAEL	125	mg/kg	Rat	OECD 408 (Repeated	Analogous
repeated exposure (STOT-RE),			bw/d		Dose 90-Day Oral	conclusion
oral:					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -	NOAEL	<30	mg/kg	Rat	OECD 411 (Subchronic	Analogous
repeated exposure (STOT-RE),			bw/d		Dermal Toxicity - 90-day	conclusion
dermal:					Study)	
Specific target organ toxicity -	NOAEL	1000	mg/kg	Rabbit	OECD 410 (Repeated	Analogous
repeated exposure (STOT-RE),	NOALL	1000	ing/kg	Rabbit	Dose Dermal Toxicity -	conclusion
					,	CONClusion
dermal:				-	90-Day)	•
Specific target organ toxicity -	NOAEL	0,05	mg/l	Rat	OECD 412 (Subacute	Aerosol,
repeated exposure (STOT-RE),					Inhalation Toxicity - 28-	Analogous
inhalat.:					Day Study)	conclusion
Specific target organ toxicity -	NOAEL	0,15	mg/l	Rat		Aerosol,
repeated exposure (STOT-RE),		-, -	3.1			Analogous
inhalat.:						conclusion13
innaidt						weeks
	1	1	1	1	1	WEEKS

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute	
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit		Not irritant



Page 13 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Aspiration hazard:						Yes
Symptoms:						nausea,
						dizziness,
						diarrhoea
Specific target organ toxicity -	LOAEL	125	mg/kg	Rat	OECD 408 (Repeated	
repeated exposure (STOT-RE),			bw/d		Dose 90-Day Oral	
oral:					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -	NOAEL	>=2000	mg/kg/d	Rat	OECD 414 (Prenatal	
repeated exposure (STOT-RE),					Developmental Toxicity	
dermal:					Study)	

Paraffin oils (petroleum), cataly	Paraffin oils (petroleum), catalytic dewaxed heavy									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	Analogous				
					Toxicity)	conclusion				
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	Analogous				
					Dermal Toxicity)	conclusion				
Acute toxicity, by inhalation:	LC50	5,1	mg/l/4h	Rat	OECD 403 (Acute	Aerosol				
					Inhalation Toxicity)					
Acute toxicity, by inhalation:	LC50	20,1	mg/l/4h	Rat		Vapours				
Skin corrosion/irritation:				Rabbit		Not irritant				
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant				
					Irritation/Corrosion)					
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)				
sensitisation:					Sensitisation)					
Aspiration hazard:						Yes				

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2600	mg/kg	Rat		Male
Acute toxicity, by dermal route:	LD50	>3160	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>2	mg/l/1h	Rat	OECD 403 (Acute Inhalation Toxicity)	Male, Analogous conclusion
Skin corrosion/irritation:		>=6,25	%	Guinea pig	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2, Analogous conclusion
Serious eye damage/irritation:		>=12,5	%	Rabbit		Eye Dam. 1, Analogous conclusion16 CFR 1500.42
504 h						
Serious eye damage/irritation:		>=10-<12,5	%	Rabbit		Eye Irrit. 2, Analogous conclusion16 CFR 1500.42
504 h						
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion



Page 14 of 21

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation Test)	Analogous
						conclusion
Reproductive toxicity	NOAEL	160	mg/kg	Rat	OECD 422 (Combined	Analogous
(Developmental toxicity):					Repeated Dose Tox.	conclusion,
					Study with the	Negative
					Reproduction/Developm.	
					Tox. Screening Test)	

11.2. Information on other hazards

MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Endocrine disrupting properties:						Does not apply		
						to mixtures.		
Other information:						No other		
						relevant		
						information		
						available on		
						adverse effects		
						on health.		

SECTION 12: Ecological information

Possibly more information	Possibly more information on environmental effects, see Section 2.1 (classification).								
MoS2 Leichtlauf Super N	Notoroil 15W-50								
Super Low Friction Moto	or Oil MoS2 15W	-50							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.1. Toxicity to fish:							n.d.a.		
12.1. Toxicity to daphnia:							n.d.a.		
12.1. Toxicity to algae:							n.d.a.		
12.2. Persistence and							n.d.a.		
degradability:									
12.3. Bioaccumulative							n.d.a.		
potential:									
12.4. Mobility in soil:							n.d.a.		
12.5. Results of PBT							n.d.a.		
and vPvB assessment									
12.6. Endocrine							Does not apply		
disrupting properties:							to mixtures.		
12.7. Other adverse							No information		
effects:							available on		
							other adverse		
							effects on the		
							environment.		
Other information:							DOC-elimination		
							degree(complexi		
							ng organic		
							substance)>=		
							80%/28d: No		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.1. Toxicity to fish:	LL50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to fish:	NOEC/NOEL	28d	>1000	mg/l	Oncorhynchus mykiss	QSÁR	



Page 15 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	QSAR	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation	Analogous conclusion
12.1. Toxicity to algae:	EC50	48h	>100	mg/l	Pseudokirchneriell a subcapitata	Test) OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>=100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	31	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily biodegradable, Analogous conclusion
12.2. Persistence and degradability:		28d	6	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		3,9-6			,	High
Other information:	AOX		0	%			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	>100	mg/l	Pimephales	OECD 203 (Fish,	
,				5	promelas	Acute Toxicity	
					P	Test)	
12.1. Toxicity to daphnia:	EL50	48h	>10000	mg/l	Daphnia magna	OECD 202	
· _ · · · · · · · · · · · · · · · · · ·						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	LL50	48h	>1000	mg/l	Gammarus sp.	OECD 202	
	LLOU	-011	21000	ing/i	Cummardo op.	(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211	
	HOLO, HOLL	210	10	ing/i	Dapinia magna	(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
12.11. Foxiolty to alguo.	INOLO, NOLL		100	iiig/i	a subcapitata	Growth Inhibition	
					a cascapitata	Test)	
12.2. Persistence and		28d	31	%	activated sludge	OECD 301 F	Inherent
degradability:		200		,		(Ready	
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative	Log Pow		>3				Low
potential:							
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
		1	1	1	1		
Distillates (petroleum), s	olvent-dewaxed		raffinic				
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



Page 16 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

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12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Salmo gairdneri	,	
12.1. Toxicity to fish:	LC50	96h	>5000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	21d	1000	mg/l	Oncorhynchus mykiss	QSÁR	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	96h	>1000	mg/l	Scenedesmus subspicatus		
12.2. Persistence and degradability:		28d	6	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	31	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily biodegradable (Analogous conclusion)
12.3. Bioaccumulative potential:	Log Pow		>3				Low
Toxicity to bacteria:	EC20	6h	>1000	mg/l	Pseudomonas fluorescens		

oxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	28d	>1000	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to fish:	LL50	96h	>100	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to fish:	NOEC/NOEL	14d	1000	mg/l	Oncorhynchus mykiss	QSÁR	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion
12.3. Bioaccumulative potential:							Not to be expected
12.1. Toxicity to daphnia:	EL50	48h	> 10000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to algae:	NOEC/NOEL	72h	>=100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion



Page 17 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

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12.2. Persistence and degradability:		28d	31	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily biodegradable, Analogous conclusion
12.3. Bioaccumulative potential:	Log Pow		>6			, , , ,	@20°C
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	>100	mg/l	Pimephales	OECD 203 (Fish,	
-				_	promelas	Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EL50	48h	>10000	mg/l	Daphnia magna	OECD 202	
				-		(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.2. Persistence and		28d	31	%	activated sludge	OECD 301 F	
degradability:						(Ready	
						Biodegradability -	
						Manometric	
						Respirometry Test)	
Other information:	AOX						Does not contair
	-						any organically
							bound halogens
							which can
							contribute to the
							AOX value in
							waste water.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Water solubility:							Insoluble,
,							Product floats of
							the water
							surface.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	>100	mg/l	Pimephales	OECD 203 (Fish,	
-				-	promelas	Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia: El	EL50	48h	>10000	mg/l	Daphnia magna	OECD 202	
				-		(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	31	%	activated sludge	OECD 301 F	Inherent,
degradability:						(Ready	Biodegradable
						Biodegradability -	
						Manometric	
						Respirometry Test)	
Zinc bis[O-(6-methylhept					Organiam	Test method	Notoo
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



Page 18 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

12.4. Mobility in soil:							Adsorption in ground.
12.1. Toxicity to fish:	LC50	96h	4,5	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	5,4	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	2,1	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	1,5	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		0,59-1,2			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	Not to be expected 23 °C
12.5. Results of PBT and vPvB assessment						,	No PBT substance, No vPvB substance
Toxicity to bacteria:			10	mg/l	activated sludge		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

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Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

15 01 01 paper and cardboard packaging 15 01 02 plastic packaging

15 01 02 plastic packaging

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

14.1. UN number or ID number: **Transport by road/by rail (ADR/RID)** 14.2. UN proper shipping name: n.a.



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Page 19 of 21							
Safety data sheet according to Regulation (EC) No 1907/2006, Annex I							
Revision date / version: 07.09.2022 / 0017							
Replacing version dated / version: 01.11.2021 / 0016							
Valid from: 07.09.2022							
PDF print date: 07.09.2022							
MoS2 Leichtlauf Super Motoroil 15W-50							
Super Low Friction Motor Oil MoS2 15W-50							
14.3. Transport hazard class(es):	n.a.						
14.4. Packing group:	n.a.						
Classification code:	n.a.						
LQ:	n.a.						
14.5. Environmental hazards:	Not applicable						
Tunnel restriction code:							
Transport by sea (IMDG-code)							
14.2. UN proper shipping name:							
14.3. Transport hazard class(es):	n.a.						
14.4. Packing group:	n.a.						
Marine Pollutant:	n.a						
14.5. Environmental hazards:	Not applicable						
Transport by air (IATA)							
14.2. UN proper shipping name:							
14.3. Transport hazard class(es):	n.a.						
14.4. Packing group:	n.a.						
14.5. Environmental hazards:	Not applicable						
14.6. Special precautions for user							
Unless specified otherwise, general measures for safe transport must b	e followed						
14.7. Maritime transport in bulk according to IMC							
• •	าทอนนกษาเอ						
Non-dangerous material according to Transport Regulations.							

SECTION 15: Regulatory information

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

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

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Revised sections:

3, 8, 11, 12

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Asp. Tox. — Aspiration hazard Skin Irrit. — Skin irritation Eye Dam. — Serious eye damage Aquatic Chronic — Hazardous to the aquatic environment - chronic

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA). Safety data sheets for the constituent substances.



Page 20 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

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German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

according, according to acc., acc. to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) Adsorbable organic halogen compounds AOX approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BSEF The International Bromine Council bw body weight CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon drv weight dw for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) EC European Community ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect European Economic Community EEC EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances ΕN European Norms EPA United States Environmental Protection Agency (United States of America) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) $ErCx, E\mu Cx, ErLx (x = 10, 50)$ et cetera etc. EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number gen. general Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential Adsorption coefficient of organic carbon in the soil Koc octanol-water partition coefficient Kow International Agency for Research on Cancer IARC IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) International Maritime Code for Dangerous Goods IMDG-code including, inclusive incl. IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient



ആ Page 21 of 21 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.09.2022 / 0017 Replacing version dated / version: 01.11.2021 / 0016 Valid from: 07.09.2022 PDF print date: 07.09.2022 MoS2 Leichtlauf Super Motoroil 15W-50 Super Low Friction Motor Oil MoS2 15W-50 LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NI P No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development organic org. OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic ΡE Polyethylene PNEC Predicted No Effect Concentration ppm parts per million PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List REACH-IT List-No. Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International RID Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Telephone Tel. TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods Volatile organic compounds VOC vPvB very persistent and very bioaccumulative wet weight wwt

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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