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Page 1 of 15

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

Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

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

Schaeffler Chain Protect

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

Additives

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

Schaeffler Automotive Aftermarket GmbH & Co KG

Billbrookdeich 112 22113 Hamburg Tel: 040 73344-0 Fax: 040 73344-199

www.schaeffler.de

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)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)
Hazard class Hazard category Hazard statement

Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

H412-Harmful to aquatic life with long lasting effects.

P273-Avoid release to the environment.

P501-Dispose of contents / container to an approved waste disposal facility.

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 %).

(GB).

Page 2 of 15

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

Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

SECTION 3: Composition/information on ingredients

3.1 Substances

n a

3.2 Mixtures

Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-	
hydroxyphenyl)propionate	
Registration number (REACH)	01-0000015551-76-XXXX
Index	607-530-00-7
EINECS, ELINCS, NLP, REACH-IT List-No.	406-040-9
CAS	125643-61-0
content %	15-20
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Aquatic Chronic 4, H413
factors	

Amides, Coco, N,N-bis(hydroxyethyl), reaction products with coco monoglycerides and molybdenum oxide	
Registration number (REACH)	01-0000017666-61-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	430-380-7
CAS	445409-27-8
content %	15-20
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Aquatic Chronic 2, H411
factors	

4,4'-methylene bis(dibutyldithiocarbamate)	
Registration number (REACH)	01-2119969655-20-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	233-593-1
CAS	10254-57-6
content %	5-10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Aquatic Chronic 4, H413
factors	

Diphenylamine	
Registration number (REACH)	
Index	612-026-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	204-539-4
CAS	122-39-4
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 3, H301
factors	Acute Tox. 3, H311
	Acute Tox. 3, H331
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)
	STOT RE 2, H373 (liver, kidneys, spleen, blood) (oral)

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

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

(GB)

Page 3 of 15

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

Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

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.

irritation of the eyes On vapour formation:

Irritation of the respiratory tract

Ingestion:

Nausea

Vomiting

Irritation of the stomach

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

Water jet spray/foam/CO2/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 sulphur

Oxides of nitrogen

Toxic gases

5.3 Advice for firefighters

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

Ensure sufficient supply of air.

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

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) 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.



Page 4 of 15

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

Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or 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.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

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

Keep out of access to unauthorised individuals.

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.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

© Chemical Name	Diphenylamine				Content %:0,1- <1
WEL-TWA: 10 mg/m3		WEL-STEL:	20 mg/m3		
Monitoring procedures:	- [raeger - Amine	e Test (81 01 061	1)	
BMGV:				Other information:	
© Chemical Name	Molybdenum disu	lphide			Content %:
WEL-TWA: 10 mg/m3 (molybde compounds, as Mo)	enum insoluble	WEL-STEL: compounds,		ybdenum insoluble	
Monitoring procedures:		-			
BMGV:				Other information:	
© Chemical Name	Oil mist, mineral				Content %:
WEL-TWA: 5 mg/m3 (Mineral o metal working fluids, ACGIH)	il, excluding	WEL-STEL:			
Monitoring procedures:	- [raeger - Oil Mi	st 1/a (67 33 031		
BMGV:				Other information:	

Reaction mass of isome	ers of: C7-9-alkyl 3-(3,5-di-tert-	butyl-4-hydroxyphenyl)propionate			
Area of application	Exposure route / Environmental	Effect on health	Descripto r	Value	Unit	Note
	compartment					
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sediment, freshwater		PNEC	0,37	mg/kg	
	Environment - sediment, marine		PNEC	0,037	mg/kg	
	Environment - soil		PNEC	189	mg/kg	
	Environment - freshwater		PNEC	0,0043	mg/kg	
	Environment - marine		PNEC	0,00043	mg/kg	
Consumer	Human - inhalation		DNEL	0,74	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	4,3	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,43	mg/kg	



Page 5 of 15

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

Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,6	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3	mg/m3	
Workers / employees	Human - dermal	Short term, local effects	DNEL	1	mg/cm2	
Workers / employees	Human - dermal	Long term, local effects	DNEL	0,006	mg/cm2	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	20	mg/kg	

Amides, Coco, N,N-bis(hydroxyethyl), reaction products with coco monoglycerides and molybdenum oxide							
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note	
	Environmental		r				
	compartment						
	Environment - freshwater		PNEC	0,047	mg/l		
	Environment - marine		PNEC	4,7	μg/l		
	Environment - sediment,		PNEC	0,709	mg/kg		
	freshwater						
	Environment - sediment,		PNEC	0,0709	mg/kg		
	marine						
	Environment - soil		PNEC	1,134	mg/kg		
Consumer	Human - dermal	Long term, systemic	DNEL	0,5	mg/kg		
		effects			bw/day		
Consumer	Human - oral	Long term, systemic	DNEL	0,5	mg/kg		
		effects			bw/day		
Workers / employees	Human - dermal	Long term, systemic	DNEL	1,04	mg/kg		
		effects			bw/day		

- 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:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

(GB)

Page 6 of 15

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

Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

Chemical resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374).

Protective Viton® / fluoroelastomer gloves (EN 374).

Minimum layer thickness in mm:

0.5

Permeation time (penetration time) in minutes:

480

Protective hand cream recommended.

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.

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. 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.

SECTION 9: Physical and chemical properties

Not determined

n a

No

9.1 Information on basic physical and chemical properties

Physical state: Paste, liquid. Grey, Black Colour: Odour: Characteristic Odour threshold: Not determined pH-value: Not determined Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined Flash point: >100 °C

Evaporation rate:
Flammability (solid, gas):

Lower explosive limit:

Upper explosive limit:

Vapour pressure:

Vapour density (air = 1):

Density:

Not determined

Not determined

Not determined

Not determined

O,974 g/ml (20°C)

Bulk density: n.a.

Solubility(ies):

Water solubility:

Not determined

Water solubility:

Not determined

Viscosity:

Not determined

Explosive properties: Product is not explosive.

Oxidising properties:

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined



Page 7 of 15

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

Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

Conductivity: Not determined Surface tension: Not determined Solvents content: Not determined

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

Strong heat

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Schaeffler Chain Protect		1		T = .	1	
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal	ATE	>2000	mg/kg			calculated value
route:						
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated
						value, Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated
						value, Aerosol,
						Mist
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						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):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	> 2000	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute	
route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
-					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)



Page 8 of 15
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 19.05.2021 / 0004
Replacing version dated / version: 18.07.2019 / 0003
Valid from: 19.05.2021

PDF print date: 20.05.2021 Schaeffler Chain Protect

Germ cell mutagenicity:	Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:		OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:	Rat		Negative, Analogous conclusion
Aspiration hazard:			Negative

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	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
-					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation	
					Test)	
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Specific target organ toxicity -	NOAEL	150	mg/kg	Rat	OECD 407 (Repeated	
repeated exposure (STOT-					Dose 28-Day Oral	
RE), oral:					Toxicity Study in	
					Rodents)	

4,4'-methylene bis(dibutyldi Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>16000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	110100
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
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:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	No (skin contact)
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative



Page 9 of 15
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 19.05.2021 / 0004
Replacing version dated / version: 18.07.2019 / 0003
Valid from: 19.05.2021

PDF print date: 20.05.2021 Schaeffler Chain Protect

Reproductive toxicity (Developmental toxicity):	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Specific target organ toxicity - repeated exposure (STOT- RE), oral:	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Negative
Specific target organ toxicity - repeated exposure (STOT- RE), oral:	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test)	Negative

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2720	mg/kg	Rat		Does not conform with EU classification.
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		Does not conform with EU classification.
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)
Symptoms:						respiratory distress, drop in blood pressure, diarrhoea, disturbed hear rhythm, coughing, headaches, cramps, gastrointestina disturbances, mucous membrane irritation, dizziness, nausea and vomiting.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	>2820	mg/m3/4 h	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Mild irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Symptoms:						mucous membrane irritation

SECTION 12: Ecological information



Page 10 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

Possibly more information on environmental effects, see Section 2.1 (classification).

			1	T			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
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. Other adverse							n.d.a.
effects:							

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>74	mg/l	Brachydanio rerio	OECD 203	
						(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	>100	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
-						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to	NOEC/NOEL	21d	>=1	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
•						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	>3	mg/l	Scenedesmus	OECD 201	
					subspicatus	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and		28d	4	%		OECD 301 B	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.3. Bioaccumulative	Log Pow		9,2			•	Low
potential:							
12.3. Bioaccumulative	BCF	35d	260			OECD 305	Concentration
potential:						(Bioconcentration	in organisms
						- Flow-Through	possible.
						Fish Test)	

Amides, Coco, N,N-bis	· · · · · · · · · · · · · · · · · · ·		•	1		· · · · · · · · · · · · · · · · · · ·	
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	BCF		<84				
12.1. Toxicity to fish:	LC50	96h	>10	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	1,5	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	48h	1	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	



Page 11 of 15
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 19.05.2021 / 0004
Replacing version dated / version: 18.07.2019 / 0003
Valid from: 19.05.2021

PDF print date: 20.05.2021 Schaeffler Chain Protect

12.1. Toxicity to algae:	NOEC/NOEL	72h	0,625	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	1,5	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	57-98	%	activated sludge	•	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		>4,45			Regulation (EC) 440/2008 A.8 (PARTITION COEFFICIENT)	High

4,4'-methylene bis(dib Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:	·	28d	21	%	- igamem	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	BCF		6,082				
12.3. Bioaccumulative potential:	Log Pow		8,42			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	(35 °C)
12.1. Toxicity to fish:	LC50	96h	>0,06	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	Water toxicology is above the water-solubility value.
12.1. Toxicity to daphnia:	EC50	48h	>0,052	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Water toxicology is above the water-solubility value.
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>=0,247	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Water toxicology is above the water-solubility value.
12.1. Toxicity to algae:	EC50	72h	>0,0325	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Water toxicology is above the water-solubility value.
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	Log Kow		7,18			OECD 121 (Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using HPLC)	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Diphenylamine

(GB)

Page 12 of 15

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

Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2,2	mg/l			
12.1. Toxicity to	EC50	48h	1,2	mg/l	Daphnia magna		
daphnia:							
12.3. Bioaccumulative	BCF		101-242				
potential:							
Toxicity to bacteria:	EC50	30min	4,76	mg/l	Photobacterium		
					phosphoreum		
Water solubility:			40	mg/l			

Molybdenum disulphic Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
	<u> </u>	96h	781-			rest method	110100
12.1. Toxicity to fish:	LC50	96n	1	mg/l	Oncorhynchus		Analogous
			1339		mykiss		conclusion(mg
10.1 T ::: :	1.050	401	1000 1	//	D		Mo/L)
12.1. Toxicity to	LC50	48h	1680,4-	mg/l	Daphnia magna		Analogous
daphnia:			1776,6				conclusion(mg
40.4 Taviaituta	1.050	405	2720.4		Dambuia maama		Mo/L)
12.1. Toxicity to	LC50	48h	2729,4	mg/l	Daphnia magna		Analogous
daphnia:							conclusion(mg Mo/L)
12.1 Tayloity to	LC50	48h	2047 5		Danhaia magaa		/
12.1. Toxicity to daphnia:	LC50	4011	2847,5	mg/l	Daphnia magna		Analogous conclusion(mg
чарппа.							Mo/L)
12.1. Toxicity to	LC50	48h	130,9	mg/l	Daphnia magna		Analogous
daphnia:	LC30	4011	130,9	ilig/i	Daprillia Illaglia		conclusion(mg
чартта.							Mo/L)
12.1. Toxicity to	LC50	48h	1005,5-	mg/l	Ceriodaphnia		Analogous
daphnia:	2000	1011	1024,6	1119/1	spec.		conclusion(mg
аартта.			1021,0		ороо.		Mo/L)
12.1. Toxicity to algae:	ErC50	72h	289,2-	mg/l	Pseudokirchnerie		Analogous
·=···· · omeny to algae.			390,9		lla subcapitata		conclusion(mg
			000,0		out out out		Mo/L)
12.1. Toxicity to fish:	LC50	96h	609-	mg/l	Pimephales		Analogous
,			681,4		promelas		conclusion(mg
			,		['		Mo/L)
12.1. Toxicity to fish:	LC50	96h	7600	mg/l	Oncorhynchus		Analogous
-				_	mykiss		conclusion(mg
							Mo/L)
Water solubility:			<0,1	mg/l			@20°C

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

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:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

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:

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Page 13 of 15

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

Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

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):

14.4. Packing group:

n.a.

n.a.

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

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:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 0 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

3, 8, 11, 12, 15

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aquatic Chronic 3, H412	Classification according to calculation procedure.

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).

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

(GB).

Page 14 of 15

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

Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - oral Acute Tox. — Acute toxicity - dermal Acute Tox. — Acute toxicity - inhalation

Aquatic Acute — Hazardous to the aquatic environment - acute STOT RE — Specific target organ toxicity - repeated exposure

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

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

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community
ECHA European Chemicals Agency
EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLIDInternational 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)

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride



Page 15 of 15

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

Revision date / version: 19.05.2021 / 0004

Replacing version dated / version: 18.07.2019 / 0003

Valid from: 19.05.2021 PDF print date: 20.05.2021 Schaeffler Chain Protect

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

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:

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