

Page 1 of 14

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

Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020 PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L

Art.: 8540

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

Molygen New Generation 5W-20 5 L

Art.: 8540

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

Hydraulic oil

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC17 - Hydraulic fluids

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC20 - Use of functional fluids in small devices

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 9a - Widespread use of functional fluid (indoor)

ERC 9b - Widespread use of functional fluid (outdoor)

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)



Page 2 of 14

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

Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020

PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L

Art.: 8540

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).

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 %).

Product can compose a film on the water surface, which can prevent oxygen exchange.

Hazardous to drinking water, on escape of even small quantities.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. 3.2 Mixture

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	
Registration number (REACH)	01-2119474889-13-XXXX
Index	649-483-00-5
EINECS, ELINCS, NLP	276-738-4
CAS	72623-87-1
content %	50-60
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

Highly refined mineral oil (C15 - C50) *	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	
CAS	
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

Bis(nonylphenyl)amine	
Registration number (REACH)	01-2119488911-28-XXXX
Index	
EINECS, ELINCS, NLP	253-249-4
CAS	36878-20-3
content %	<2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Aguatic Chronic 4, H413

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

* The contained mineral oil can be described by one or more of the following numbers:

EINECS, ELINCS, NLP	Registration number (REACH)	Chemical name
265-090-8		Baseoil - unspecified
265-091-3		Distillates (petroleum), solvent-refined light paraffinic
265-097-6		Distillates (petroleum), solvent-refined heavy naphthenic



Page 3 of 14

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

Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020 PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L

Art.: 8540

265-098-1		Distillates (petroleum), solvent-refined light naphthenic
265-101-6		Baseoil - unspecified
265-156-6		Distillates (petroleum), hydrotreated light naphthenic
265-157-1		Distillates (petroleum), hydrotreated heavy paraffinic
265-158-7		Distillates (petroleum), hydrotreated light paraffinic
265-159-2		Distillates (petroleum), solvent-dewaxed light paraffinic
265-169-7		Distillates (petroleum), solvent-dewaxed heavy paraffinic
276-737-9		Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based
276-738-4		Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based
278-012-2		Baseoil - unspecified
265-155-0		Baseoil - unspecified
276-735-8		Lubricating oils (petroleum), C>25, hydrotreated bright stock-based
276-736-3		Baseoil - unspecified
265-096-0		Residual oils (petroleum), solvent deasphalted
265-160-8		Residual oils (petroleum), hydrotreated
265-161-3		Lubricating oils (petroleum), hydrotreated spent
265-166-0		Residual oils (petroleum), solvent-dewaxed
265-176-5		Paraffin oils (petroleum), catalytic dewaxed light

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

Remove person from danger area.

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.

Unsuitable cleaning product:

Solvent

Thinners

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

With long-term contact:

Drying of the skin.

Dermatitis (skin inflammation)

Oil acne

On vapour formation:

Irritation of the respiratory tract

Ingestion:

Gastrointestinal disturbances

Nausea

Vomitina

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.



Page 4 of 14

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

Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020 PDF print date: 08.07.2020 Molygen New Generation 5W-20 5 L

Art.: 8540

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 nitrogen

Oxides of sulphur

Oxides of phosphorus

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.

Avoid formation of oil mist.

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, sawdust) and dispose of according to Section 13. Oil binder

Do not wash away with water or watery cleaning agents.

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.

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Do not heat to temperatures close to flash point.

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin.

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



Page 5 of 14

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

Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020 PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L

Art.: 8540

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

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.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based								
Area of application	Exposure route /	xposure route / Effect on health Descriptor Value Unit Note						
	Environmental							
	compartment							
	Human - oral		PNEC	9,33	mg/kg feed			
Consumer	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m3	24h		
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,4	mg/m3	8h		

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	0,1	mg/l	
	Environment - marine		PNEC	0,01	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1	mg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - sediment, freshwater		PNEC	132000	mg/kg dw	
	Environment - sediment, marine		PNEC	13200	mg/kg dw	
	Environment - soil		DNEL	263000	mg/kg dw	
	Environment - periodic release		PNEC	1	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,31	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,09	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,31	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,62	mg/kg bw/day	



Page 6 of 14

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

Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020 PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L

Art.: 8540

Workers / employees	Human - inhalation	Long term, systemic	DNEL	4,37	mg/m3	
		effects			_	

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. BS EN 14042.

BS 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 (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:

Protective gloves, oil resistant (EN 374).

If applicable

Protective nitrile gloves (EN 374).

Protective Neoprene® / polychloroprene gloves (EN 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

>= 240

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.

With oil mist formation:

Filter A2 P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable



Page 7 of 14

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

Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020 PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L

Art.: 8540

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

9.1 Information on basic physical and chemical properties

Physical state: Liquid Colour: Brown Characteristic Odour: Odour threshold: Not determined pH-value: Not determined Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined 230 °C Flash point: Evaporation rate: Not determined Flammability (solid, gas): n.a.

Lower explosive limit:

Upper explosive limit:

Vapour pressure:

Vapour density (air = 1):

Density:

Not determined

Density: 0,84
Bulk density: n.a.

Solubility(ies): Not determined Water solubility: Insoluble Partition coefficient (n-octanol/water): Not determined Auto-ignition temperature: Not determined Decomposition temperature: Not determined Viscosity: 46,8 mm2/s (40°C) Viscosity: 8,35 mm2/s (100°C) Explosive properties: Product is not explosive.

Oxidising properties: No

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined 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

See also section 7.

Heating, open flame, ignition sources

10.5 Incompatible materials

See also section 7.



③B)·

Page 8 of 14

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020 PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L Art.: 8540

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 toxicological effects

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

Molygen New Generation 5W-2	0 5 L					
Art.: 8540						
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:						n.d.a.
Serious eye damage/irritation:						n.d.a.
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	>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	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
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:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:					OECD 451 (Carcinogenicity Studies)	Negative



Page 9 of 14

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005 Valid from: 06.07.2020

PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L Art.: 8540

Carcinogenicity:	OECD 453 (Combined Negative
	Chronic
	Toxicity/Carcinogenicity
	Studies)
Reproductive toxicity:	OECD 414 (Prenatal Negative
	Developmental Toxicity
	Study)
Reproductive toxicity:	OECD 421 Negative
	(Reproduction/Developm
	ental Toxicity Screening
	Test)
Specific target organ toxicity -	OECD 408 (Repeated Negative
repeated exposure (STOT-RE):	Dose 90-Day Oral
	Toxicity Study in
	Rodents)
Specific target organ toxicity -	OECD 410 (Repeated Negative
repeated exposure (STOT-RE):	Dose Dermal Toxicity -
	90-Day)
Specific target organ toxicity -	OECD 411 (Subchronic Negative
repeated exposure (STOT-RE):	Dermal Toxicity - 90-day
	Study)
Specific target organ toxicity -	OECD 412 (Subacute Negative
repeated exposure (STOT-RE):	Inhalation Toxicity - 28-
	Day Study)
Aspiration hazard:	Asp. Tox. 1

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	>2000	mg/kg	Rat	OECD 402 (Acute	Analogous
					Dermal Toxicity)	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
						conclusion
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation Test)	Analogous
						conclusion
Germ cell mutagenicity:				Mouse	OECD 478 (Genetic	Negative,
					Toxicology - Rodent	Analogous
					dominant Lethal Test)	conclusion
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	
Reproductive toxicity	NOAEL	150	mg/kg	Rat	OECD 414 (Prenatal	Negative
(Developmental toxicity):			bw/d		Developmental Toxicity	
					Study)	
Specific target organ toxicity -	NOAEL	<100	mg/kg	Rat	OECD 408 (Repeated	
repeated exposure (STOT-RE),			bw/d		Dose 90-Day Oral	
oral:					Toxicity Study in	
					Rodents)	

SECTION 12: Ecological information



B.

Page 10 of 14

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020 PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L Art.: 8540

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

Molygen New Generation 5W-20 5 L Art.: 8540								
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. Other adverse							n.d.a.	
effects:								

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	96h	>=100	mg/l	Pimephales	OECD 203 (Fish,	
					promelas	Acute Toxicity	
						Test)	
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)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>=100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	EL50	48h	>100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	46	%		OECD 301 B	
degradability:						(Ready	
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.3. Bioaccumulative	Log Kow		>6				A notable
potential:							biological
							accumulation
							potential has to
							be expected
							(LogPow > 3).
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Toxicity to bacteria:	NOEC/NOEL	10min	>1,93	mg/l		DIN 38412 T.8	

Bis(nonylphenyl)amine							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to algae:	NOEC/NOEL	72h	>10	mg/l	Desmodesmus		Analogous
					subspicatus		conclusion



Page 11 of 14

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

Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020 PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L

Art.: 8540

12.2. Persistence and		28d	24	%		OECD 301 C	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Modified MITI	
40.4 Tandalanta fiala	1.050	001-	400		Dan alecada ais as ais	Test (I))	A
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio	OECD 203 (Fish,	Analogous
						Acute Toxicity	conclusion
12.1 Toxicity to dophnia:	EC50	48h	>100	ma/l	Danhaia magna	Test) OECD 202	
12.1. Toxicity to daphnia:	ECSU	4811	>100	mg/l	Daphnia magna		
						(Daphnia sp. Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	600	mg/l	Pseudokirchneriell	OECD 201 (Alga,	Analogous
12.1. Toxicity to algae.	L030	1211	000	1119/1	a subcapitata	Growth Inhibition	conclusion
					a subcapitata	Test)	CONGRAGION
12.2. Persistence and		28d	1	%	activated sludge	OECD 301 B	Not readily
degradability:				'-		(Ready	biodegradable,
and grant and any						Biodegradability -	Analogous
						Co2 Evolution	conclusion
						Test)	
12.3. Bioaccumulative	Log Pow		>7,6				Concentration in
potential:							organisms
							possible.
12.3. Bioaccumulative potential:	BCF		1730				High
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209	Analogous
						(Activated Sludge,	conclusion
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	

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 01 10 mineral based non-chlorinated hydraulic oils

Recommendation:

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 04 metallic packaging

Empty container completely.

Uncontaminated packaging can be recycled.

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



Page 12 of 14

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

Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020

PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L

Art.: 8540

SECTION 14: Transport information

General statements

14.1. UN number: n.a.

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
14.5. Classification code:
14.6. Record the same of the same of

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 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:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC): 0,445 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

3

Revised sections:

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.

H413 May cause long lasting harmful effects to aquatic life.

Asp. Tox. — Aspiration hazard

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Any abbreviations and acronyms used in this document:



Page 13 of 14

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

Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020

PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L

Art.: 8540

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)

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

IUCLID International Uniform Chemical Information Database

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

REACHRegistration, 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



Page 14 of 14

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

Revision date / version: 06.07.2020 / 0006

Replacing version dated / version: 18.07.2019 / 0005

Valid from: 06.07.2020 PDF print date: 08.07.2020

Molygen New Generation 5W-20 5 L Art.: 8540

United Nations Recommendations on the Transport of Dangerous Goods **UN RTDG**

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: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.