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Page 1 of 16

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

Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Hypoid-Getriebeoel (GL5) SAE 140W

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

Hypoid-Getriebeoel (GL5) SAE 140W

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

Gear lubricant

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)

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

Aguatic Chronic 3 H412-Harmful to aguatic 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.

EUH208-Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), Amines, C10-14-tert-alkyl. May produce an allergic reaction.

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 %).



③B)·

Page 2 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Hypoid-Getriebeoel (GL5) SAE 140W

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.

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

Distillates (petroleum), hydrotreated middle	
Registration number (REACH)	01-2119489867-12-XXXX
Index	649-221-00-X
EINECS, ELINCS, NLP, REACH-IT List-No.	265-148-2
CAS	64742-46-7
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
	Skin Irrit. 2, H315
	Acute Tox. 4, H332
	Aguatic Chronic 2, H411

Amines, C10-14-tert-alkyl	
Registration number (REACH)	01-2119456798-18-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	701-175-2
CAS	
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Acute Tox. 3, H311
	Acute Tox. 2, H330
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	Skin Sens. 1A, H317
	Aquatic Acute 1, H400 (M=1)
	Aguatic Chronic 1, H410 (M=1)

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	Substance with specific conc. limit(s) acc. to REACH-registration.
Registration number (REACH)	01-2119493620-38-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	931-384-6
CAS	
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Eye Dam. 1, H318
	Aquatic Chronic 2, H411
	Skin Sens. 1B, H317

C16-18-(even numbered, saturated and unsaturated)-alkylamines	
Registration number (REACH)	01-2119473797-19-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	627-034-4
CAS	1213789-63-9
content %	0,01-<0,1



Page 3 of 16

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

Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021

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Hypoid-Getriebeoel (GL5) SAE 140W

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors

Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335

Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

STOT RE 2, H373 (gastrointestinal tract, liver, immune

system) (oral)

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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

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.

Eve 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

Where relevant delayed occuring symptomes and effects will be found in section 11. or at the exposure routes under section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Drying of the skin.

Irritation of the skin.

Allergic reaction

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 nitrogen

Oxides of sulphur

Toxic gases

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.



(B)

Page 4 of 16

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

Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Hypoid-Getriebeoel (GL5) SAE 140W

Protective respirator with independent air supply.

According to size of fire Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation of oil mist.

Remove possible causes of ignition - do not smoke.

Avoid inhalation, and 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) and dispose of according to Section 13.

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

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Do not heat to temperatures close to flash point.

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

Avoid long lasting or intensive contact with skin.

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

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.

Do not store with flammable or self-igniting materials.

Protect against moisture and store closed.

Under all circumstances prevent penetration into the soil.

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, 6 working fluids, ACGIH)	excluding metal WEL-STEL:	



Page 5 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Monitoring procedures:	- Draeger - Oil Mist 1/a (67 33 031)
BMGV:	Other information:

Distillates (petroleum), h	ydrotreated middle					
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	5003	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,9	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	16,4	mg/m3	

Amines, C10-14-tert-alky	<u>'</u>					
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,001	mg/l	
	Environment - marine		PNEC	0	mg/l	
	Environment - sediment, freshwater		PNEC	2,14	mg/kg dw	
	Environment - sediment, marine		PNEC	0,214	mg/kg dw	
	Environment - soil		PNEC	0,428	mg/kg dw	
	Environment - sewage treatment plant		PNEC	0,635	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,004	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,35	mg/kg bw/day	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,001	mg/l	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,2	mg/l	
Consumer	Human - dermal	Long term, systemic effects	DNEL	6,25	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,25	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	12,5	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	8,56	mg/m3	

C16-18-(even numbered, saturated and unsaturated)-alkylamines							
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note	
	Environmental						
	compartment						
	Environment - freshwater		PNEC	0,26	μg/l		
	Environment - marine		PNEC	0,026	μg/l		
	Environment - sediment,		PNEC	3,76	mg/kg dw		
	freshwater						



(B)

Page 6 of 16

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

Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Hypoid-Getriebeoel (GL5) SAE 140W

	Environment - sediment,		PNEC	0,376	mg/kg dw	
	marine					
	Environment - soil		PNEC	10	mg/kg dw	
	Environment - sewage		PNEC	550	μg/l	
	treatment plant					
	Environment - water,		PNEC	1,6	μg/l	
	sporadic (intermittent)					
	release					
Consumer	Human - oral	Long term, systemic	DNEL	0,04	mg/kg	
		effects			bw/day	
Workers / employees	Human - dermal	Long term, systemic	DNEL	0,09	mg/kg	
, ,		effects				

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)					

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

Skin protection - Hand protection:

Protective nitrile gloves (EN 374).

Permeation time (penetration time) in minutes:

480

Minimum layer thickness in mm:

0,4

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.



Page 7 of 16

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

Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Hypoid-Getriebeoel (GL5) SAE 140W

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.

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

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: Colour: Brown 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: 230 °C Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined Vapour density (air = 1): Not determined 0,900 g/ml Density: Bulk density: Not determined Solubility(ies): Not determined Water solubility: Insoluble Partition coefficient (n-octanol/water): Not determined Auto-ignition temperature: Not determined Decomposition temperature: Not determined Viscosity: 27 mm2/s (100°C) Viscosity: 380 mm2/s (40°C) Explosive properties: Not determined Oxidising properties: Not determined

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Not determined

Not determined

Not determined

Not determined

Surface tension:

Not determined

Not determined

Not determined

SECTION 10: Stability and reactivity



Page 8 of 16

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

Revision date / version: 14.07.2021 / 0019 Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Hypoid-Getriebeoel (GL5) SAE 140W

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.
Protect from humidity.
Open flame, ignition sources

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 toxicological effects

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

Hypoid-Getriebeoel (GL5) SAE 140W										
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value				
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.				

Distillates (petroleum), hydrotr	eated middle					
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	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	4,6	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Acute toxicity, by inhalation:	LC50	1,72	mg/l/4h	Rat		Mist, Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
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



Page 9 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

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Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative,
					Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion
Carcinogenicity:						NegativeDMSO-
•						extract <3% (IP
						346)
Reproductive toxicity:				Rat	OECD 416 (Two-	Negative,
•					generation	Analogous
					Reproduction Toxicity	conclusionoral
					Study)	
Aspiration hazard:						Yes, Asp. Tox. 1
Symptoms:						headaches,
						nausea and
						vomiting.
Specific target organ toxicity -	NOAEL	1000	mg/kg	Rabbit	OECD 410 (Repeated	Analogous
repeated exposure (STOT-RE),					Dose Dermal Toxicity -	conclusion
dermal:					90-Day)	
Specific target organ toxicity -	NOAEL	0,88	mg/l	Rat	OECD 413 (Subchronic	Aerosol,
repeated exposure (STOT-RE),					Inhalation Toxicity - 90-	Analogous
inhalat.:					Day Study)	conclusion

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	612	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	251	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	1,19	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours, Female
Acute toxicity, by inhalation:	LC50	1,7	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours, Male
Skin corrosion/irritation:				Rabbit		Skin Corr. 1B
Serious eye damage/irritation:				Rabbit		Eye Dam. 1
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Skin Sens. 1A
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	NegativeChinese hamster
Reproductive toxicity (Developmental toxicity):	NOAEL	5	mg/kg bw/d	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negativedermal
Reproductive toxicity (Effects on fertility):				Rat	OECD 415 (One- Generation Reproduction Toxicity Study)	Negativeoral
Specific target organ toxicity - single exposure (STOT-SE):						Irritation of the respiratory tract
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	20	mg/kg	Rat	OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	19	mg/m3	Rat	OECD 412 (Subacute Inhalation Toxicity - 28- Day Study)	Vapours4 weeks

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:	LD50	2000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Analogous conclusion			
Acute toxicity, by oral route:	LD50	> 3000	mg/kg	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)				



Page 10 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Acute toxicity, by dermal route:	LD50	5000	mg/kg	Rabbit	OECD 434 (Acute Dermal Toxicity – Fixed Dose Procedure)	
Acute toxicity, by inhalation:	LD50	> 22	mg/l/1h	Rat		VapoursOECD 433
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Corrosive
Serious eye damage/irritation:		>=50	%	Rabbit		Eye Dam. 1, Classification based on toxicological analyses.
Serious eye damage/irritation:		<50	%	Rabbit		Not irritant, Classification based on toxicological analyses.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Analogous conclusion
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
Reproductive toxicity:					,	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	150	mg/kg bw/d	Rat	OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	

C16-18-(even numbered, satura	ated and unsa	turated)-alkyl	amines			
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1689	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Acute toxicity, by inhalation:	LD50	>0,099	ppmV/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Analogous conclusion, Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Corr. 1B
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1, Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogous conclusion
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative



Page 11 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Hypoid-Getriebeoel (GL5) SAE 140W

Reproductive toxicity (Effects	NOAEL	12,5	mg/kg	Rat	OECD 421	Negative,
on fertility):					(Reproduction/Developm	Analogous
					ental Toxicity Screening	conclusion
					Test)	
Specific target organ toxicity -						Irritation of the
single exposure (STOT-SE):						respiratory tract,
						STOT SE 3,
						H335
Aspiration hazard:						Yes
Specific target organ toxicity -	NOAEL	3,25	mg/kg/d	Rat	OECD 407 (Repeated	Target organ(s):
repeated exposure (STOT-RE),					Dose 28-Day Oral	gastrointestinal
oral:					Toxicity Study in	tract, liver,
					Rodents)	immune system

SECTION 12: Ecological information

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

Hypoid-Getriebeoel (GL5 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 degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Other adverse effects:							n.d.a.
Other information:							DOC-elimination degree(complexi ng organic substance)>= 80%/28d: No

Distillates (petroleum),	Distillates (petroleum), hydrotreated middle												
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes						
12.1. Toxicity to fish:	LC50	96h	1,13	mg/l	Oncorhynchus mykiss	QSAR							
12.2. Persistence and degradability:		28d	25	%		84/449/EEC C.7	Not readily biodegradable						

Amines, C10-14-tert-alky			177.1	11.14	- ·	-	- N
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1,3	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	NOEC/NOEL	>60d	0,078	mg/l	Oncorhynchus	OECD 210 (Fish,	96d
					mykiss	Early-Life Stage	
						Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	2,5	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	0,44	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
, .					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,05	mg/l	Pseudokirchneriell	OEĆD 201 (Alga,	
_					a subcapitata	Growth Inhibition	
					· ·	Test)	



(B)

Page 12 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

12.2. Persistence and		28d	21,8	%	activated sludge	OECD 301 D	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle Test)	
12.3. Bioaccumulative	Log Pow		2,9				Low23 °C
potential:							
Toxicity to bacteria:	EC50	30min	63,5	mg/l	activated sludge	OECD 209	
						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	96h	3,2	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LL50	96h	24	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EL50	21d	0,66	mg/l	Daphnia magna	OEĆD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,12	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EL50	48h	91,4	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	96h	6,4	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	96h	1,7	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	7,4	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.2. Persistence and degradability:	DOC	28d	3,6	%	activated sludge		
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	~2433	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

	C16-18-(even numbered, saturated and unsaturated)-alkylamines							
	Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
	12.1. Toxicity to fish:	LL50	96h	0,06	mg/l	Pimephales		EPA OPPTS
Į						promelas		850.1085



Page 13 of 16

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

Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Hypoid-Getriebeoel (GL5) SAE 140W

12.1. Toxicity to daphnia:	EL50	48h	0,011	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	0,46	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EL50	96h	0,04	mg/l	Selenastrum capricornutum		
12.2. Persistence and degradability:		28d	66	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
Toxicity to bacteria:	EL50	3h	32	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion

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:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

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.

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):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)



Page 14 of 16

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

Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Hypoid-Getriebeoel (GL5) SAE 140W

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:

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 1,001 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

3, 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	Evaluation method used
(EC) No. 1272/2008 (CLP)	
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).

H330 Fatal if inhaled.

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

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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.

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Asp. Tox. — Aspiration hazard Skin Irrit. — Skin irritation



Page 15 of 16

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

Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Hypoid-Getriebeoel (GL5) SAE 140W

Acute Tox. — Acute toxicity - inhalation Acute Tox. — Acute toxicity - oral Acute Tox. — Acute toxicity - dermal Skin Corr. — Skin corrosion

Eye Dam. — Skin corrosion

Eye Dam. — Serious eye damage

Skin Sens. — Skin sensitization

Aquatic Acute — Hazardous to the aquatic environment - acute

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

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

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)

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable n.av. not available n.c. not checked n.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic



Page 16 of 16

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

Revision date / version: 14.07.2021 / 0019

Replacing version dated / version: 27.07.2020 / 0018

Valid from: 14.07.2021 PDF print date: 14.07.2021

Hypoid-Getriebeoel (GL5) SAE 140W

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

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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