

Page 1 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.04.2023 / 0022 Replacing version dated / version: 01.11.2021 / 0021 Valid from: 05.04.2023 PDF print date: 05.04.2023 Hypoid-Getriebeoel (GL5) SAE 85W-140

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

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

1.1 Product identifier

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Hypoid-Getriebeoel (GL5) SAE 85W-140

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) +1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementAquatic Chronic3H412-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.

EUH208-Contains 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 %).



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

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

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

(GB)·

Distillates (petroleum), hydrotreated light paraffinic	
Registration number (REACH)	01-2119487077-29-XXXX
Index	649-468-00-3
EINECS, ELINCS, NLP, REACH-IT List-No.	265-158-7
CAS	64742-55-8
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
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	Acute Tox. 4, H332
	Skin Irrit. 2, H315
	Asp. Tox. 1, H304
	Aquatic 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. 2, H330
	Acute Tox. 3, H311
	Acute Tox. 4, H302
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	Skin Sens. 1A, H317
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)
Specific Concentration Limits and ATE	Skin Sens. 1A, H317: >=9 %

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
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	STOT SE 3, H335
	STOT RE 2, H373 (gastrointestinal tract, liver, immune
	system) (oral)
	Asp. Tox. 1, H304
	Aquatic Acute 1, H400 (M=10)
	Aquatic Chronic 1, H410 (M=10)



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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

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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.

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

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



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6.1.1 For non-emergency personnel

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

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products. Leave the danger zone if possible, use existing emergency plans if necessary.

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.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

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

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) 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.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name

Oil mist, mineral



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Hypoid-Getriebeoel (GL5) \$						
WEL-TWA: 5 mg/m3 (Mir	neral oil, excluding metal WI	EL-STEL:				
working fluids, ACGIH)						
Monitoring procedures:	- Draeç	ger - Oil Mist 1/a (67 33 031)		- 41 - 14 -		
BMGV:			Other inform	nation:	-	
Distillates (netroleum), hi	ydrotreated light paraffinic					
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - oral (animal		PNEC	9,33	mg/kg feed	
0	feed)		DNE	1.10		
Consumer Consumer	Human - inhalation Human - oral	Long term, local effects Long term, systemic	DNEL DNEL	1,19 0,74	mg/m3 mg/kg	
Consumer		effects		0,74	bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,6	mg/m3	
Workers / employees	Human - dermal	Long term, systemic	DNEL	0,97	mg/kg	
····		effects			bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,7	mg/m3	
		enecis				
Distillates (petroleum), hy	vdrotreated middle					
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
Workers / employees	compartment Human - inhalation	Short term, systemic	DNEL	5003	mg/m3	
workers / employees	Human - Innaiation	effects	DINEL	5005	mg/ms	
Workers / employees	Human - dermal	Long term, systemic	DNEL	2,9	mg/kg	
		effects			bw/day	
Workers / employees	Human - inhalation	Long term, systemic	DNEL	16,4	mg/m3	
		effects				
Amines, C10-14-tert-alkyl						
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment		DNEO	0.001		
	Environment - freshwater Environment - marine		PNEC PNEC	0,001	mg/l mg/l	
	Environment - sediment,		PNEC	2,14	mg/kg dw	
	freshwater		11120	_,	ing/ng an	
	Environment - sediment,		PNEC	0,214	mg/kg dw	
	marine					
	Environment - soil		PNEC	0,428	mg/kg dw	
	Environment - sewage		PNEC	0,635	mg/l	
	treatment plant Environment - water,		PNEC	0,004	ma/l	
	sporadic (intermittent)		FINEC	0,004	mg/l	
			1			
	release					
Consumer		Long term, systemic	DNEL	0,35	mg/kg	

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						
	Environment - sediment,		PNEC	0,376	mg/kg dw		
	marine						



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	Environment - soil		PNEC	10	mg/kg dw
	Environment - sewage treatment plant		PNEC	550	μg/l
	Environment - water, sporadic (intermittent) release		PNEC	1,6	µg/l
Consumer	Human - oral	Long term, systemic effects	DNEL	0,04	mg/kg bw/day
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,035	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,09	mg/kg
Workers / employees	Human - inhalation	Long term, local effects	DNEL	1	mg/m3
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,38	mg/m3

Distillates (pet	Distillates (petroleum), hydrotreated heavy paraffinic									
Area of applica	tion	Exposure route /	xposure 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 ISO 374). Permeation time (penetration time) in minutes:



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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. 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:	Liquid
Colour:	Brown
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	Flammable
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	230 °C
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	27 mm2/s (100°C)
Kinematic viscosity:	380 mm2/s (40°C)
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	0,900 g/ml
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.
9.2 Other information	
Explosives:	There is no information available on this parameter.
Oxidising liquids:	There is no information available on this parameter.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.



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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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Hypoid-Getriebeoel (GL5) SAE 85W-140						
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.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	Analogous
					Toxicity)	conclusion
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	Analogous
					Dermal Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute	Aerosol,
			_		Inhalation Toxicity)	Analogous
						conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
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



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Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative,
Gerni cell mutagenicity.				Wallinalian	Mammalian	Analogous
					Chromosome	conclusionChines
					Aberration Test)	e hamster
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative,
(Developmental toxicity):				Rai	Developmental Toxicity	Analogous
(Developmental toxicity).					Study)	conclusion
Carcinogenicity:				Mouse	OECD 451	Negative,
Carcinogenicity.				wouse	(Carcinogenicity Studies)	Analogous
					(Carcinogenicity Studies)	conclusiondermal
Reproductive toxicity:	NOAEL	1000	mg/kg	Rat	OECD 421	Analogous
Reproductive toxicity.	NOALL	1000	bw/d	indi	(Reproduction/Developm	conclusiondermal
			Dw/u		ental Toxicity Screening	conclusiondernia
					Test)	
Aspiration hazard:						Yes
Specific target organ toxicity -	NOAEL	125	mg/kg	Rat	OECD 408 (Repeated	Analogous
repeated exposure (STOT-RE),	NOALL	120	bw/d	T Cat	Dose 90-Day Oral	conclusion
oral:			DW/G		Toxicity Study in	conclusion
oran					Rodents)	
Specific target organ toxicity -	NOAEL	<30	mg/kg	Rat	OECD 411 (Subchronic	Analogous
repeated exposure (STOT-RE),			bw/d		Dermal Toxicity - 90-day	conclusion
dermal:					Study)	
Specific target organ toxicity -	NOAEL	1000	mg/kg	Rabbit	OECD 410 (Repeated	Analogous
repeated exposure (STOT-RE),			00		Dose Dermal Toxicity -	conclusion
dermal:					90-Day)	
Specific target organ toxicity -	NOAEL	0,05	mg/l	Rat	OECD 412 (Subacute	Aerosol,
repeated exposure (STOT-RE),			Ŭ		Inhalation Toxicity - 28-	Analogous
inhalat.:					Day Study)	conclusion
Specific target organ toxicity -	NOAEL	0,15	mg/l	Rat		Aerosol,
repeated exposure (STOT-RE),			-			Analogous
inhalat.:						conclusion13
						weeks

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>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
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:						NegativeDMSO- extract <3% (IP 346)
Reproductive toxicity:				Rat	OECD 416 (Two- generation Reproduction Toxicity Study)	Negative, Analogous conclusionoral



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Hypoid-Getriebeoel (GL5) SAE 8	5\W_140					
	500-140					
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative,
(Developmental toxicity):				1 tat	Developmental Toxicity	Analogous
(Developmental toxicity):					Study)	conclusionoral,
					Study)	dermal
Appiration bazard						Yes, Asp. Tox. 1
Aspiration hazard:						headaches,
Symptoms:						
						nausea and
0 10 1 1	NOAE	4000		D. LL Y		vomiting.
Specific target organ toxicity -	NOAEL	1000	mg/kg	Rabbit	OECD 410 (Repeated	Analogous
repeated exposure (STOT-RE),					Dose Dermal Toxicity -	conclusion
dermal:		0.00			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
Amines, C10-14-tert-alkyl						
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	Vapours, Female
					Inhalation Toxicity)	
Acute toxicity, by inhalation:	LC50	1,7	mg/l/4h	Rat	OECD 403 (Acute	Vapours, Male
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit		Skin Corr. 1B
Serious eye damage/irritation:				Rabbit		Eye Dam. 1
Respiratory or skin				Guinea pig	OECD 406 (Skin	Skin Sens. 1A
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro	NegativeChinese
					Mammalian Cell Gene	hamster
					Mutation Test)	
Reproductive toxicity	NOAEL	5	mg/kg	Rat	OECD 414 (Prenatal	Negativedermal
(Developmental toxicity):			bw/d		Developmental Toxicity	
					Study)	
Reproductive toxicity (Effects				Rat	OECD 415 (One-	Negativeoral
on fertility):					Generation	
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -	1					Irritation of the
single exposure (STOT-SE):						respiratory tract
Specific target organ toxicity -	NOAEL	20	mg/kg	Rat	OECD 410 (Repeated	
repeated exposure (STOT-RE),					Dose Dermal Toxicity -	
dermal:					90-Day)	
Specific target organ toxicity -	NOAEL	19	mg/m3	Rat	OECD 412 (Subacute	Vapours4 weeks
repeated exposure (STOT-RE),	NUAEL	19	mg/ms	Ναι	Inhalation Toxicity - 28-	
TENERIEU EXPOSUIE (STUT-RE).	1					1
inhalat.:					Day Study)	

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	mg/l/1h	Rat	OECD 403 (Acute Inhalation Toxicity)	Analogous conclusion, Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Corr. 1B



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Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Eye Dam. 1,
					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:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Reproductive toxicity (Effects	NOAEL	12,5	mg/kg	Rat	OECD 421	Negative,
on fertility):					(Reproduction/Developm	Analogous
					ental Toxicity Screening Test)	conclusion
Specific target organ toxicity -						Irritation of the
single exposure (STOT-SE):						respiratory tract,
						STOT SE 3,
						H335
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
Aspiration hazard:						Yes

11.2. Information on other hazards

Hypoid-Getriebeoel (GL5) SAE 85W-140							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Endocrine disrupting properties:						Does not apply	
						to mixtures.	
Other information:						No other	
						relevant	
						information	
						available on	
						adverse effects	
						on health.	

SECTION 12: Ecological information

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

Hypoid-Getriebeoel (GL5) SAE 85W-140						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							n.d.a.
degradability:							
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.



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PDF print date: 05.04.202							
Hypoid-Getriebeoel (GL5)	SAE 85W-140						
Other information:							DOC-elimination
							degree(complex
							ng organic
							substance)>=
							80%/28d: No
Distillates (petroleum), h	ydrotreated ligh			11	0	Test wethed	Nataa
Toxicity / effect 12.1. Toxicity to fish:	Endpoint NOEC/NOEL	Time 28d	Value >1000	Unit mg/l	Organism Oncorhynchus	Test method QSAR	Notes
	NOEC/NOEL	200	>1000	mg/i	mykiss	QSAR	
12.1. Toxicity to fish:	LL50	96h	>100	mg/l	Pimephales	OECD 203 (Fish,	Analogous
					promelas	Acute Toxicity	conclusion
						Test)	
12.1. Toxicity to fish:	NOEC/NOEL	14d	1000	mg/l	Oncorhynchus	QSAR	
					mykiss		
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211	Analogous
						(Daphnia magna	conclusion
12.1. Toxicity to daphnia:	EL50	48h	> 10000	mg/l	Donhaio magna	Reproduction Test) OECD 202	Analogous
	ELSU	4011	> 10000	iiig/i	Daphnia magna	(Daphnia sp.	Analogous conclusion
						Acute	CONClusion
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>=100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	Analogous
, .				Ū	a subcapitata	Growth Inhibition	conclusion
						Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	Analogous
					a subcapitata	Growth Inhibition	conclusion
100 D 11		00.1		0(Test)	NI / 19
12.2. Persistence and		28d	31	%	activated sludge	OECD 301 F	Not readily
degradability:						(Ready	biodegradable,
						Biodegradability - Manometric	Analogous conclusion
						Respirometry Test)	conclusion
12.3. Bioaccumulative	Log Pow		>6				@20°C
potential:							
12.3. Bioaccumulative							Not to be
potential:							expected
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Distillates (petroleum), h	ydrotreated mid		Value	Unit	Organicm	Tast mothod	Notoc

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
12.2. Persistence and degradability:		28d	57,5	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
2.1. 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)	



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	-	1		1 .	1		
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,	
			- /	5	a subcapitata	Growth Inhibition	
					a subsapilata	Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,05	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
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:	LL50	96h	0,06	mg/l	Pimephales promelas		Analogous conclusionEPA OPPTS 850.1085
12.1. Toxicity to daphnia:	EL50	48h	0,011	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	0,46	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
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, Analogous conclusion
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)



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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

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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 Transport by road/by rail (ADR/RID

Transport by road/by rail (ADR/RID)		
14.1. UN number or ID number:	Not applicable	
14.2. UN proper shipping name:		
Not applicable		
14.3. Transport hazard class(es):	Not applicable	
14.4. Packing group:	Not applicable	
14.5. Environmental hazards:	Not applicable	
Tunnel restriction code:	Not applicable	
Classification code:	Not applicable	
LQ:	Not applicable	
Transport category:	Not applicable	
Transport by sea (IMDG-code)		
14.1. UN number or ID number:	Not applicable	
14.2. UN proper shipping name:		
Not applicable		
14.3. Transport hazard class(es):	Not applicable	
14.4. Packing group:	Not applicable	
14.5. Environmental hazards:	Not applicable	
Marine Pollutant:	Not applicable	
EmS:	Not applicable	
Transport by air (IATA)		
14.1. UN number or ID number:	Not applicable	
14.2. UN proper shipping name:		
Not applicable		
14.3. Transport hazard class(es):	Not applicable	
14.4. Packing group:	Not applicable	
14.5. Environmental hazards:	Not applicable	
14.6. Special precautions for user		
Unless specified otherwise, general measures for safe transport	t must be followed.	
14.7. Maritime transport in bulk according t	o IMO instruments	

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 %

National requirements/regulations on safety and health protection must be applied when using work equipment.



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15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

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Revised sections:

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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).

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

Acute Tox. — Acute toxicity - inhalation Skin Irrit. — Skin irritation

Skin Irrit. — Skin Irritation

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

Skin Corr. — Skin corrosion

Skin Con. — Skin conosion

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

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

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

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

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

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

Any abbreviations and acronyms used in this document:



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Valid from: 05.04.2023 Hypoirt-Genriebed (GL5) SAE 85W-140 Sec. acc. to according, according to ADR Accord europeen relatil au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carrage of Dangerous Goods by Raci) ACX Adsorability organic halogue compounds ATR ATR to marchan Carrage of Dangerous Goods by Raci) ACX Adsorability organic halogue compounds ATR ATR to marchan Carrage of Dangerous Goods by Raci) ACX Adsorability organic halogue compounds ATR ATR to marchan (American Society for Testing and Materials) ATR ACINE Thermation (American Society for Testing and Materials) ATR Acute Toxicity Estimate BMB Dundessatth für Materialforschurz und Arbeitsmedzin (= Federal Institute for Occupational Health and Safety, Germany) BAUA Bundessatth für Materialforschurz und Arbeitsmedzin (= Federal Institute for Occupational Health and Safety, Germany) BAUA Bundessatth für Materialforschurz und Arbeitsmedzin (= Federal Institute for Occupational Health and Safety, Germany) BAUA Bundessatth für Materialforschurz und Arbeitsmedzin (= Federal Institute for Occupational Health and Safety, Germany) BAUA Bundessatth für Materialforschurz und Arbeitsmedzin (= Federal Institute for Occupational Health and Safety, Germany) BAUA Bundessatth für Materialforschurz und Arbeitsmedzin (= Federal Institute for Occupation all Health and Safety, Germany) BAUA Bundessatth für Materialforschurz und Arbeitsmedzin (= Federal Institute for Occupation all Health and Safety, Germany) BAUA Bundessatth für Materialforschurz und Arbeitsmedzin (= Federal Institute for Occupation all Health and Safety, Germany) BAUA Bundessatth für Materialforschurz und Arbeitsmedzin (= Federal Institute for Naterials) CEC ELEC Level De Effect Level DHE Derived No Effect Level EX ELEX k = 0.3, 6, 10, 20, 50, 80, 1000. Effect Concentration/Level of x % on inhibition o	
Hypoid/Gatriebeel (GLS) SAE asW-140 acc, acc. to according, according to ADK Accord europhem relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Gods by Road) ACX Adsorbable organic haloging compounds approximately Marchine AR H. T. S. Accitor Toxicity Estimate AR H. T. S. Action Toxicity Estimate AR H. T. S. Action Toxicity Estimate AR H. T. S. Action Toxicity Estimate AR Bundessantalt für Materiatorschung und -prütung (Federal Institute for Naterials Research and Testing, Germany) BAUK Bundessantalt für Materiatorschung und -prütung (Federal Institute for Occupational Health and Safety, Germany) BSEF The International Bromine Council The International Bromine Council BV bortweith Deside Minimum Effect Level DNEL Derived No Effect Level Derived No Effect Level DNEL Derived No Effect Concentration/Level of x % on reduction of the biomass (algae, plants) EC European Community Effect Concentration/Level for x % effect EUROS European Chemical Substances European Chemical Substances	Valid from: 05.04.2023
acc., acc. 10 according, according 10 ADR Accord europeen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Koad) ACX Acsorbable organic halogen compounds approx. approximately Art, Art. no. Article number Art. Art. no. Article number Art. Art. Namerational Antencian Society for Testing and Materials) ARAM Bundesanchat für Antencians Society for Testing and Materials) ARAM Bundesanchat für Antencians Society for Testing and Materials) ARAM Bundesanchat für Antencians Society for Testing and Materials ARAM Bundesanchat für Antencians Society for Testing (Education Society) BCF Bicconcentration factor BEF The International Bromine Council Bw body weight CLSS Chemical Astracts Service CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, Labelling and packaging of substances autor and Astracts Service CLP Classification (Defined Lavel Defined Minimum Effect Lavel DMEL Derived Norme Community Effect Services Classification and Labelling Commercial Chemical Substances ELINCES European List of Notified Chemical Substances ELINCES European List on Notifies Classification and Labelling of Chemicals Globally Harmonized System of Classification and Labelling of Chemicals Globally Harmonized System of Classi	
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ആ Page 17 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.04.2023 / 0022 Replacing version dated / version: 01.11.2021 / 0021 Valid from: 05.04.2023 PDF print date: 05.04.2023 Hypoid-Getriebeoel (GL5) SAE 85W-140 OECD Organisation for Economic Co-operation and Development organic org. OSHA Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic PBT PΕ Polyethylene PNEC Predicted No Effect Concentration parts per million ppm Polyvinylchloride PVC 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. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International RID Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Telephone Tel. TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods 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 GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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