

Page 1 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

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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Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

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 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)

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



Page 2 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

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

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. **3.2 Mixtures**

(GB)·

Polysulfides, di-tert-Bu	
Registration number (REACH)	01-2119540515-43-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	273-103-3
CAS	68937-96-2
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. 1B, H317
	Aquatic Chronic 3, H412
Specific Concentration Limits and ATE	Skin Sens. 1B, H317: >=46 %
•	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	
Registration number (REACH)	01-2119471299-27-XXXX
Index	649-474-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	265-169-7
CAS	64742-65-0
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
Baseoil - unspecified *	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid	
with phosphorus oxide, propylene oxide and amines, C12-14-alkyl	
(branched)	
Registration number (REACH)	01-2119493620-38-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	931-384-6
CAS	
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Eye Dam. 1, H318
	Skin Sens. 1B, H317
	Aquatic Chronic 2, H411
Specific Concentration Limits and ATE	Eye Dam. 1, H318: >50 %
	Eye Irrit. 2, H319: >50 %
	Skin Sens. 1B, H317: >=9,39 %

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, REACH-	Registration number (REACH)	Chemical name								
IT List-No.										
265-157-1	01-2119484627-25-XXXX	Distillates (petroleum), hydrotreated heavy paraffinic								
265-169-7	01-2119471299-27-XXXX	Distillates (petroleum), solvent-dewaxed heavy paraffinic								
265-158-7	01-2119487077-29-XXXX	Distillates (petroleum), hydrotreated light paraffinic								
265-159-2	01-2119480132-48-XXXX	Distillates (petroleum), solvent-dewaxed light paraffinic								

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



Page 3 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

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.

Danger of aspiration.

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: Drying of the skin.

Irritation of the skin. May cause sensitisation by skin contact. Allergic contact eczema

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 Dry extinguisher Water jet spray Foam

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 Flammable vapour/air mixtures

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



Page 4 of 15

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Avoid formation of oil mist.

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.

Oil binder

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.

Take measures against electrostatic charging, if appropriate.

Avoid long lasting or intensive contact with skin.

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

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

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. Protect against moisture and store closed.

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		
WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal	WEL-STEL:	
working fluids, ACGIH)		



Page 5 of 15

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

skin. Carc = Capable of causing cancer and/or heritable genetic damage.

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

Other information: ---

Distillates (petroleum), solvent-dewaxed 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)										
Consumer	Human - inhalation	Long term, local effects	DNEL	1,19	mg/m3						
Consumer	Human - oral	Long term, systemic	DNEL	0,74	mg/kg bw/d						
		effects									
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,58	mg/m3						
Workers / employees	Human - inhalation	Long term, systemic	DNEL	2,73	mg/m3						
		effects									
Workers / employees	Human - dermal	Long term, systemic	DNEL	0,97	mg/kg bw/d						
		effects									

Baseoil - unspecified			-			
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - oral (animal feed)		PNEC	9,33	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,74	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1	mg/kg	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,6	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,7	mg/m3	

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/day	
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 bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	8,56	mg/m3	

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).

(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



Page 6 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls 8.2.1 Appropriate engineering controls

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

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

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

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

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

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). If applicable Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,45 Permeation time (penetration time) in minutes: >= 480 Protective hand cream recommended. The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

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

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

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

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

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

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties



Page 7 of 15

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

9.2 Other information

Explosives: Oxidising liquids:

Liquid Yellow Characteristic There is no information available on this parameter. There is no information available on this parameter. Flammable There is no information available on this parameter. There is no information available on this parameter. 190 °C There is no information available on this parameter. There is no information available on this parameter. Mixture is non-soluble (in water). 80,0 mm2/s (40°C) 14,3 mm2/s (100°C) Insoluble Does not apply to mixtures. There is no information available on this parameter. 0,850 g/cm3 There is no information available on this parameter. Does not apply to liquids.

There is no information available on this parameter. There is no information available on this parameter.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known. 10.4 Conditions to avoid

See also section 7. Open flame, ignition sources Protect from humidity.

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).

Vollsynthetisches Getriebeoel (GL5) SAE 75W-90											
Fully Synthetic Gear Oil (GL5) SAE 75W-90											
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:											
Respiratory or skin											



Page 8 of 15 Safety data sheet according to Re		No 1907/2006	, Annex II			
Revision date / version: 01.11.20 Replacing version dated / version		/ 0019				
Valid from: 01.11.2021	. 13.10.2021	0018				
PDF print date: 01.11.2021						
Vollsynthetisches Getriebeoel (Gl	_5) SAE 75W-	90				
Fully Synthetic Gear Oil (GL5) SA						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity: Specific target organ toxicity -						n.d.a. n.d.a.
single exposure (STOT-SE):						n.u.a.
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
Polysulfides, di-tert-Bu						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Respiratory or skin	-			Guinea pig	OECD 406 (Skin	Skin Sens. 1B
sensitisation:					Sensitisation)	
Distillator (notroloum) columnt	dawayad kas					
Distillates (petroleum), solvent- Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	Hotes
·····			5.5		Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	
				-	Dermal Toxicity)	<u> </u>
Acute toxicity, by inhalation:	LD50	>5,53	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
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
Respiratory or skin				Guinea pig	OECD 406 (Skin	conclusion No (skin
sensitisation:				Califica pig	Sensitisation)	contact),
					,	Analogous
						conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative,
					Erythrocyte	Analogous
Germ cell mutagenicity:				Mammalian	Micronucleus Test) OECD 473 (In Vitro	conclusion Negative,
Germ cen mutagementy.				Marinanan	Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	Chinese hamste
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation Test)	Analogous
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	conclusion Negative,
Common matagementy.				Modee	Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion
Carcinogenicity:				Mouse	OECD 451	Negative,
					(Carcinogenicity Studies)	Analogous
						conclusion 78 weeks, dermal
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative,
(Developmental toxicity):					Developmental Toxicity	Analogous
					Study)	conclusion
Caroinaganisitur				Mauraa		dermal
Carcinogenicity: Reproductive toxicity:				Mouse Rat		Female, Negativ Negative
Reproductive toxicity (Effects				Rat	OECD 421	Negative,
on fertility):					(Reproduction/Developm	Analogous
					ental Toxicity Screening	conclusion oral,
	NO: =/			-	Test)	dermal
Specific target organ toxicity - repeated exposure (STOT-RE),	NOAEL	~1000	mg/kg bw/d	Rabbit	OECD 410 (Repeated Dose Dermal Toxicity -	Analogous conclusion
	1	1	1 (1)///1	1	L DOSE DEIMAL LOXICITY -	CONCLUSION



Replacing version dated / versior Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (G Fully Synthetic Gear Oil (GL5) SA	6L5) SAE 75W-	/ 0018	6, Annex II			
Aspiration hazard:	Т			1		Yes
Symptoms:						mucous membrane irritation, dizziness, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	30	mg/kg/d	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,22	mg/l	Rat		Aerosol, Analogous conclusion 4 weeks
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,15	mg/l	Rat		Aerosol, Analogous conclusion 13 weeks
Baseoil - unspecified						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Respiratory or skin sensitisation: Aspiration hazard:	<u> </u>					Not sensitizising Analogous conclusion Yes
Symptoms:						mucous
						membrane irritation
alkyl (branched)		/l)dithiophosp	ohoric acid with	<u> </u>	de, propylene oxide and ar Test method	irritation
alkyl (branched) Toxicity / effect	thylpentan-2-y Endpoint LD50			phosphorus oxi Organism Rat	Test method OECD 401 (Acute Oral	irritation nines, C12-14- Notes Analogous
alkyl (branched) Toxicity / effect Acute toxicity, by oral route:	Endpoint	Value	Unit	Organism	Test method OECD 401 (Acute Oral Toxicity) OECD 420 (Acute Oral toxicity - Fixe Dose	irritation nines, C12-14- Notes
alkyl (branched) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route:	Endpoint LD50	Value 2000	Unit mg/kg	Organism Rat	Test method OECD 401 (Acute Oral Toxicity) OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) OECD 434 (Acute Dermal Toxicity - Fixed	irritation nines, C12-14- Notes Analogous
Reaction products of bis(4-met alkyl (branched) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by dermal route:	Endpoint LD50 LD50	Value 2000 > 3000	Unit mg/kg mg/kg	Organism Rat Rat	Test method OECD 401 (Acute Oral Toxicity) OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) OECD 434 (Acute	irritation nines, C12-14- Notes Analogous conclusion VapoursOECD
alkyl (branched) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by dermal route:	Endpoint LD50 LD50 LD50	Value 2000 > 3000 5000	Unit mg/kg mg/kg mg/kg	Organism Rat Rat Rat Rat	Test method OECD 401 (Acute Oral Toxicity) OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) OECD 434 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure)	irritation nines, C12-14- Notes Analogous conclusion
alkyl (branched) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation:	Endpoint LD50 LD50 LD50	Value 2000 > 3000 5000	Unit mg/kg mg/kg mg/kg	Organism Rat Rat Rat Rabbit Rat	Test method OECD 401 (Acute Oral Toxicity) OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) OECD 434 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure)	irritation nines, C12-14- Notes Analogous conclusion VapoursOECD 433
alkyl (branched) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation:	Endpoint LD50 LD50 LD50	Value 2000 > 3000 5000	Unit mg/kg mg/kg mg/kg	Organism Rat Rat Rabbit Rat Rabbit Rat	Test method OECD 401 (Acute Oral Toxicity) OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) OECD 434 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure)	irritation nines, C12-14- Notes Analogous conclusion VapoursOECD 433 Not irritant Corrosive Eye Dam. 1, Classification based on toxicological
alkyl (branched) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Serious eye damage/irritation:	Endpoint LD50 LD50 LD50	Value 2000 > 3000 5000 > 22	Unit mg/kg mg/kg mg/kg mg/l/1h	Organism Rat Rat Rabbit Rat Rabbit Rabbit Rabbit Rabbit	Test method OECD 401 (Acute Oral Toxicity) OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) OECD 434 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure)	irritation irritation Notes Analogous conclusion VapoursOECD 433 Vot irritant Corrosive Eye Dam. 1, Classification based on toxicological analyses. Not irritant, Classification based on toxicological
alkyl (branched) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation:	Endpoint LD50 LD50 LD50	Value 2000 > 3000 5000 > 22 >=50	Unit mg/kg mg/kg mg/kg mg/l/1h	Organism Rat Rat Rabbit Rat Rabbit Rabbit Rabbit Rabbit Rabbit	Test method OECD 401 (Acute Oral Toxicity) OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) OECD 434 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure) OECD 404 (Acute Dermal Toxicity - Fixed Dose Procedure)	irritation irritation Notes Analogous conclusion VapoursOECD 433 Not irritant Corrosive Eye Dam. 1, Classification based on toxicological analyses. Not irritant, Classification based on



B Page 10 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
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)	

11.2. Information on other hazards

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).
Vollsynthetisches Getriebeoel (GL5) SAE 75W-90

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							Isolate as much
degradability:							as possible with
							an oil separator.
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.
Other information:							DOC-elimination
							degree(complexi
							ng organic
							substance)>=
							80%/28d: No

Polysulfides, di-tert-Bu							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Kow		6				measured
12.1. Toxicity to daphnia:	EC50	48h	63	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	



- (B)
Page 11 of 15
0
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0019
Replacing version dated / version: 13.10.2021 / 0018
Valid from: 01.11.2021
PDF print date: 01.11.2021
Vollsynthetisches Getriebeoel (GL5) SAE 75W-90
Fully Synthetic Gear Oil (GL5) SAE 75W-90

12.2. Persistence and		28d	13	%		OECD 301 B	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
				-	a subcapitata	Growth Inhibition	
						Test)	
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge		

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

Baseoil - unspecified							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Pimephales		
-				_	promelas		
12.1. Toxicity to daphnia:	EC50	48h	>10000	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>10	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Scenedesmus		
				_	quadricauda		
12.2. Persistence and		28d	31	%		OECD 301 B	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
						Test)	



Page 12 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

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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:	LC50	96h	8,5	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EL50	21d	0,66	mg/l	Daphnia magna	OECD 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: 12.5. Results of PBT	DOC	28d	3,6	%	activated sludge		Not readily biodegradable No PBT
and vPvB assessment							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))	

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

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

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

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

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. 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



Page 13 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

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 or ID 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)	
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
1/ 6 Special precautions for user	

14.6. Special precautions for user

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

14.7. Maritime transport in bulk according to 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:

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General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):

3,2 %

15.2 Chemical safety assessment A chemical safety assessment is not provided for mixtures.

Revised sections:

1-16

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP): Not applicable

SECTION 16: Other information

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). H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.



Page 14 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90

H304 May be fatal if swallowed and enters airways.H318 Causes serious eye damage.H411 Toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

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Skin Sens. — Skin sensitization Aquatic Chronic — Hazardous to the aquatic environment - chronic Asp. Tox. — Aspiration hazard Acute Tox. — Acute toxicity - oral Eye Dam. — Serious eye damage

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:

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) Adsorbable organic halogen compounds AOX approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF Bioconcentration factor BSEF The International Bromine Council body weight bw CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw drv weight e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) EC European Community ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect European Economic Community EEC European Inventory of Existing Commercial Chemical Substances EINECS ELINCS European List of Notified Chemical Substances ΕN European Norms United States Environmental Protection Agency (United States of America) EPA $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) et cetera etc. ΕU European Union

EVAL Ethylene-vinyl alcohol copolymer



ആ Page 15 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0019 Replacing version dated / version: 13.10.2021 / 0018 Valid from: 01.11.2021 PDF print date: 01.11.2021 Vollsynthetisches Getriebeoel (GL5) SAE 75W-90 Fully Synthetic Gear Oil (GL5) SAE 75W-90 Fax. Fax number gen. general GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Adsorption coefficient of organic carbon in the soil Koc octanol-water partition coefficient Kow IARC International Agency for Research on Cancer International Air Transport Association IATA 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) Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships n.a. not applicable not available n.av. not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NI P No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic ΡE Polyethylene PNEC Predicted No Effect Concentration parts per million ppm PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List REACH-IT List-No. Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. 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 TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods Volatile organic compounds VOC vPvB very persistent and very bioaccumulative wet weight wwt The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

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

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