

according to UK REACH Regulation

Revision date: 01.12.2023

DIVINOL SYNTHOGEAR SAE 75W-90

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

1.1. Product identifier

ZELLER+GMELIN

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

Use of the substance/mixture

Lubricant

1.3. Details of the supplier of the safety data sheet

Company name:	Zeller+Gmelin GmbH & Co. KG				
Street:	Schlossstr. 20				
Place:	D-73054 Eislingen				
Telephone:	+49 (0) 7161 / 802-0	Telefax: +49 (0) 7161 / 802-290			
E-mail:	info@zeller-gmelin.de				
Contact person:	Thorsten Grönig	Telephone: +49 (0) 7161 / 802-268			
E-mail:	produktsicherheit@zeller-gmelin.de				
Internet:	www.zeller-gmelin.de	www.zeller-gmelin.de			
Responsible Department:	Produktsicherheit / Product Safety				
<u>1.4. Emergency telephone</u> number:	In England and Wales: NHS Direct: 084 08454 24 24 24	5 4647 or 111 In Scotland: NHS 24 -			

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard statements

H412

Precautionary statements

Avoid release to the environment.

P273 2.3. Other hazards

No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mineral oil-based mixture. Mineral oil with DMSO extract < 3 % as measured by IP 346.

Harmful to aquatic life with long lasting effects.

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Relevant ingredients

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
157707-86-3	dec-1-ene, trimers, hydrogenated			25 - < 100 %
	500-393-3		01-2119493949-12	
	Asp. Tox. 1; H304			
64742-46-7	distillates (petroleum), hydrotreated	l middle		1 - < 2.5 %
	265-148-2	649-221-00-X	01-2119489867-12	
	Acute Tox. 4, Skin Irrit. 2, Asp. Tox	. 1, Aquatic Chronic 2; H33	2 H315 H304 H411	
64742-55-8	distillates (petroleum), hydrotreated light paraffinic			1 - < 2.5 %
	265-158-7	649-468-00-3	01-2119487077-29	
	Asp. Tox. 1; H304		•	
68955-53-3	amines, C10-14-tert-alkyl-	0.3 - < 1 %		
	701-175-2		01-2119456798-18	
	Acute Tox. 2, Acute Tox. 3, Acute T 1, Aquatic Chronic 1; H330 H311 H			
141904-03-2	reaction products of bis(4-methylpe propylene oxide and amines, C12-1	• • • •	acid with phosphorus oxide,	0.3 - < 1 %
	931-384-6		01-2119493620-38	
	Acute Tox. 4, Eye Irrit. 2, Skin Sens	s. 1, Aquatic Chronic 2; H30	2 H319 H317 H411	
1213789-63- 9	C16-18-(even numbered, saturated	l and unsaturated)-alkylami	nes	< 0.1 %
	627-034-4		01-2119473797-19	
	Acute Tox. 4, Skin Corr. 1B, Eye Da Aquatic Chronic 1; H302 H314 H31			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE CAS No EC No Chemical name Quantity Specific Conc. Limits, M-factors and ATE 64742-46-7 265-148-2 distillates (petroleum), hydrotreated middle 1 - < 2.5 % inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists) 68955-53-3 701-175-2 amines, C10-14-tert-alkyl-0.3 - < 1 % inhalation: LC50 = 1,19 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 251 mg/kg; oral: LD50 = 612 mg/kg Skin Sens. 1A; H317: >= 9 - 100 141904-03-2 0.3 - < 1 % 931-384-6 reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) oral: LD50 = > 2000 mg/kg Eye Irrit. 2; H319: >= 50 - 100 Skin Sens. 1; H317: >= 9,39 - 100 627-034-4 C16-18-(even numbered, saturated and unsaturated)-alkylamines 1213789-63-< 0.1 % oral: ATE = 500 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice. Remove contaminated, saturated clothing immediately.

After inhalation

Remove casualty to fresh air and keep warm and at rest.



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After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Let water be drunken in little sips (dilution effect). Call a physician immediately. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

When in doubt or if symptoms are observed, get medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2).

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Carbon monoxide Carbon dioxide (CO2). Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not allow to enter into soil/subsoil.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Protective measures: see section 7 + 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Clean contaminated articles and floor according to the environmental legislation.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Protective measures: see section 7 + 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Do not eat, drink or smoke when using this product. Provide fresh air. Handle and open container with care. Conditions to avoid: generation/formation of aerosols.

Advice on protection against fire and explosion

No special measures are necessary.

Advice on general occupational hygiene

When using do not eat, drink, smoke, sniff.



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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Protect against: Frost. Keep away from heat. Protect from direct sunlight. Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
64742-55-8	distillates (petroleum), hydrotreated light paraffinic					
Worker DNEL	, long-term	dermal	systemic	0,97 mg/kg bw/day		
Worker DNEL	, long-term	inhalation	systemic	2,73 mg/m ³		
Consumer DN	IEL, long-term	oral	systemic	0,74 mg/kg bw/day		
Consumer DN	IEL, long-term	inhalation	local	1,19 mg/m ³		
Worker DNEL	, long-term	inhalation	local	5,58 mg/m³		
68955-53-3	amines, C10-14-tert-alkyl-					
Consumer DNEL, long-term		oral	systemic	0,35 mg/kg bw/day		
141904-03-2	reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)					
Worker DNEL, long-term		inhalation	systemic	4,28 mg/m ³		
Worker DNEL, long-term		dermal	systemic	12,5 mg/kg bw/day		
Consumer DNEL, long-term		inhalation	systemic	1,09 mg/m³		
Consumer DNEL, long-term		dermal	systemic	6,25 mg/kg bw/day		
Consumer DNEL, acute		dermal	local	0,024 mg/cm ²		
Consumer DN	IEL, long-term	oral	systemic	0,25 mg/kg bw/day		

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PNEC values

CAS No	Substance			
Environmental	compartment	Value		
64742-55-8	distillates (petroleum), hydrotreated light paraffinic			
Secondary poi	soning	9,33 mg/kg		
68955-53-3	amines, C10-14-tert-alkyl-			
Freshwater		0,001 mg/l		
141904-03-2 reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)				
Freshwater		0,0024 mg/l		
Freshwater (intermittent releases) 0,15 mg/l				
Marine water 0,00024				
Freshwater sediment 0,012		0,0129 mg/kg		
Marine sediment 0,00129				
Secondary poisoning 10 mg/kg				
Micro-organisms in sewage treatment plants (STP) 24,33 mg/l				
Soil		0,00117 mg/kg		

Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long-term exposure:

d before next shift

Y: A risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept

Z: A risk of reproductive effects cannot to be excluded if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept

blood (B)

Urine (U)

8.2. Exposure controls

Appropriate engineering controls

See section 7. No additional measures necessary.

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection (EN ISO 16321).

Hand protection

Wear suitable gloves. Recommended glove articles: EN ISO 374. Suitable material: NBR (Nitrile rubber). Breakthrough time: > 480 min (Thickness of the glove material: 0.4 mm). Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Skin protection

Protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. When splashes or fine mist form, a permitted breathing apparatus suitable for these purposes must be used. Suitable respiratory protection apparatus: Filtering Half-face mask (EN 149), e.g. FFA P / FFP3.

Environmental exposure controls

Do not allow to enter into surface water or drains.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	light yellow
Odour:	characteristic

		Test method
Melting point/freezing point:	not determined	
Boiling point or initial boiling point and	not determined	
boiling range:		
Flammability:	not determined	
Lower explosion limits:	0,6 vol. %	
Upper explosion limits:	6,5 vol. %	
Flash point:	> 200 °C	EN ISO 2592
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
pH-Value:	not applicable	
Viscosity / kinematic: (at 40 °C)	105 mm²/s	ASTM D 7042
Water solubility:	insoluble	
Partition coefficient n-octanol/water:	not determined	
Vapour pressure: (at 20 °C)	< 0,1 hPa	
Density (at 15 °C):	0,87 g/cm³	DIN EN ISO 12185
Relative vapour density:	not determined	
Particle characteristics:	not applicable	
9.2. Other information		
Other safety characteristics		
Pour point:	< -39 °C	ASTM D 7346
Viscosity / dynamic:	not determined	
Flow time:	not determined	
Further Information		

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

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ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) 33467 mg/kg; ATE (inhalation vapour) 130,4 mg/l; ATE (inhalation dust/mist) 6,250 mg/l

CAS No	AS No Chemical name					
	Exposure route	Dose		Species	Source	Method
64742-46-7	distillates (petroleum), hy	drotreated m	iddle			
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
68955-53-3	amines, C10-14-tert-alky	-				
	oral	LD50 mg/kg	612	Rat		
	dermal	LD50 mg/kg	251	Rat		
	inhalation (4 h) vapour	LC50	1,19 mg/l	Rat - female		
	inhalation dust/mist	ATE	0,05 mg/l			
141904-03-2	reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)					oxide and
	oral	LD50 mg/kg	> 2000	Rat		
1213789-63- 9	C16-18-(even numbered, saturated and unsaturated)-alkylamines					
	oral	ATE mg/kg	500			

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Other information

Keeping to the general worker's protection rules and the industrial hygienics, there is no risk in handling this product through the personnel.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
141904-03- 2	reaction products of bis(4 amines, C12-14-alkyl (bra		an-2-yl)dithio	phospho	ric acid with phosphorus	oxide, propylene ox	ide and
	Acute fish toxicity	LC50 mg/l	ca. 8,5		Oncorhynchus mykiss (Rainbow trout)	ECHA Dossier	OECD 203
	Acute algae toxicity	ErC50	6,4 mg/l	96 h		ECHA Dossier	OECD 201
	Acute crustacea toxicity	EC50 mg/l	ca. 91,4		Daphnia magna (Big water flea)	ECHA Dossier	OECD 202
	Acute bacteria toxicity	EC50 mg/l()	ca. 2433	3 h	Activated sludge	ECHA Dossier	OECD 209
1213789-63 -9	C16-18-(even numbered,	saturated a	nd unsaturate	ed)-alkyli	amines		
	Acute fish toxicity	LC50 mg/l	0,11		Pimephales promelas (fathead minnow)		
	Acute crustacea toxicity	EC50 mg/l	0,011		Daphnia pulex (water flea)		
	Crustacea toxicity	NOEC mg/l	0,013	21 d	Daphnia pulex (water flea)		

12.2. Persistence and degradability

There are no data available on the mixture itself.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
	reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)				
	ASTM-D-5864-95	3,6 %	28	ECHA Dossier	

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
157707-86-3	dec-1-ene, trimers, hydrogenated	> 10
	reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	< 0,3

BCF

CAS No	Chemical name	BCF	Species	Source
141904-03-2	reaction products of bis(4-methylpentan-2-yl)dithiophospho ric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	436	Oncorhynchus mykiss (Rainbow trout)	ECHA Dossier
1213789-63-9	C16-18-(even numbered, saturated and unsaturated)-alkylamines	500		

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects



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No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of Wastes Code - residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Marine transport (IMDG)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Marine pollutant:	NO
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user	
No data available	
14.7. Maritime transport in bulk according to	IMO instruments
No data available	
SECTION 15: Regulatory information	
15.1 Safety health and environmental regul	ations/legislation specific for the substance or mixture
	anonsheqisiation specific for the substance of mixture
EU regulatory information	
Restrictions on use (REACH, annex XVII): Entry 3, Entry 75	
Directive 2010/75/EU on industrial emissions:	0 %
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms Acute Tox: Acute toxicity Asp. Tox: Aspiration hazard Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation Skin Sens: Skin sensitisation STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard ADR: Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations concerning the International Carriage of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organization CAS: Chemical Abstracts Service (a division of the American Chemical Society) DNEL/DMEL: Derived No-Effect Level / Derived Minimal Effect Level PNEC: Predicted No Effect Concentration WEL (UK): Workplace Exposure Limits TWA (EC): Time-Weighted Average STEL (EC): Short Term Exposure Limit ATE: Acute Toxicity Estimate LD50: Lethal Dose, 50% (median lethal dose) LC50: Lethal Concentration, 50% (median lethal concentration) EC50: half maximal Effective Concentration ErC50: EC50 in terms of reduction of growth rate AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.



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Further Information

Safety Data Sheet according to COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)