

according to UK REACH Regulation

Revision date: 02.08.2022

Divinol Syntholight ECO 5W20

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

1.1. Product identifier

ZELLER+GMELIN

49380 Divinol Syntholight ECO 5W20

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

Use of the substance/mixture

Motor oil

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	
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

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements

GB CLP Regulation

Special labelling of certain mixtures

EUH208Contains C14-16-18 alkylphenol, molybdenum polysulphide long chain alkyl dithiocarbamate
complex. May produce an allergic reaction.EUH210Safety data sheet available on request.

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.

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Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Re	gulation)		
64742-54-7	distillates (petroleum), hyd	rotreated heavy paraffinic		25 - < 100 %
	265-157-1	649-467-00-8	01-2119484627-25	
	Asp. Tox. 1; H304		•	
64742-56-9	distillates (petroleum), solv	vent-dewaxed light paraffinic		1 - < 2.5 %
	265-159-2	649-469-00-9	01-2119480132-48	
	Asp. Tox. 1; H304		*	
36878-20-3	bis(nonylphenyl)amine			1 - < 2.5 %
	253-249-4		01-2119488911-28	
	Aquatic Chronic 4; H413		·	
1190625-94- 5	C14-16-18 alkylphenol			1 - < 2.5 %
	931-468-2		01-2119498288-19	
	Skin Sens. 1B, STOT RE 2	2; H317 H373	·	
64742-65-0	distillates (petroleum), solv	vent-dewaxed heavy paraffinic		1 - < 2.5 %
	265-169-7	649-474-00-6	01-2119471299-27	
	Asp. Tox. 1; H304			
	molybdenum polysulphide long chain alkyl dithiocarbamate complex			0.1 - < 0.3 %
	457-320-2		01-0000019337-66	
	Skin Irrit. 2, Skin Sens. 1,	Aquatic Chronic 3; H315 H317 H41	2	

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. L	imits, M-factors and ATE	
64742-54-7	265-157-1	distillates (petroleum), hydrotreated heavy paraffinic	25 - < 100 %
	dermal: LD50 =	: > 5000,0 mg/kg; oral: LD50 = > 5000,0 mg/kg	
64742-56-9	265-159-2	distillates (petroleum), solvent-dewaxed light paraffinic	1 - < 2.5 %
	dermal: LD50 =	: >5000,0 mg/kg; oral: LD50 = >5000,0 mg/kg	

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.

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



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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.

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

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64742-54-7	distillates (petroleum), hydrotreated heavy paraffinic			
Consumer DN	NEL, long-term	inhalation	local	1,2 mg/m³
Worker DNEL	., long-term	inhalation	local	5,4
64742-56-9	distillates (petroleum), solvent-dewaxed light paraffinio	c		
Worker DNEL	., long-term	inhalation	systemic	2,73 mg/m³
Worker DNEL	., long-term	inhalation	local	5,58 mg/m³
Worker DNEL	., long-term	dermal	systemic	0,97 mg/kg bw/day
Consumer DN	NEL, long-term	inhalation	local	1,19 mg/m³
Consumer DN	NEL, long-term	oral	systemic	0,74 mg/kg bw/day
36878-20-3	bis(nonylphenyl)amine			
Worker DNEL	., long-term	dermal	systemic	5 mg/kg bw/day
Worker DNEL	., long-term	inhalation	systemic	4,37 mg/m³
Consumer DN	NEL, long-term	oral	systemic	0,25 mg/kg bw/day
Consumer DN	NEL, long-term	dermal	systemic	2,5 mg/kg bw/day
Consumer DN	NEL, long-term	inhalation	systemic	1,09 mg/m³
Worker DNEL	., acute	dermal	systemic	5 mg/kg bw/day
1190625-94- 5	C14-16-18 alkylphenol			
Worker DNEL	, long-term	inhalation	systemic	1,17 mg/m³
Worker DNEL	., long-term	dermal	systemic	0,3 mg/kg bw/day
64742-65-0	distillates (petroleum), solvent-dewaxed heavy paraffi	nic		
Worker DNEL	., long-term	inhalation	local	5,40 mg/m³
Consumer DN	NEL, long-term	inhalation	local	1,20 mg/m³
	molybdenum polysulphide long chain alkyl dithiocarba	amate complex		
Worker DNEL	., long-term	dermal	systemic	2,24 mg/kg bw/day
Worker DNEL	., long-term	dermal	local	0,112 mg/cm ²
Worker DNEL	., long-term	inhalation	systemic	3,52 mg/m³
Consumer D	NEL, long-term	oral	systemic	0,5 mg/kg bw/day
Consumer DN	NEL, long-term	dermal	systemic	1,12 mg/kg bw/day
Consumer D	NEL, long-term	dermal	local	0,056 mg/cm ²
Consumer DN	NEL, long-term	inhalation	systemic	1,76 mg/m ³

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PNEC values

CAS No	Substance	
Environmenta	l compartment	Value
64742-54-7	distillates (petroleum), hydrotreated heavy paraffinic	
Secondary po	isoning	9,33 mg/kg
64742-56-9	distillates (petroleum), solvent-dewaxed light paraffinic	
Secondary po	isoning	9,33 mg/kg
36878-20-3	bis(nonylphenyl)amine	
Freshwater		0,412 mg/l
Freshwater (ir	ntermittent releases)	1 mg/l
Marine water		0,041 mg/l
Marine water	(intermittent releases)	13200 mg/kg
Freshwater se	ediment	1 mg/kg
Marine sedim	ent	0,1 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	1 mg/l
Soil		100 mg/kg
1190625-94- 5	C14-16-18 alkylphenol	
Freshwater		0,1 mg/l
Marine water		0,01 mg/l
Freshwater se	ediment	4266 mg/kg
Marine sedim	ent	422,6 mg/kg
Soil		852,58 mg/kg
64742-65-0	distillates (petroleum), solvent-dewaxed heavy paraffinic	
Secondary po	isoning	9,33 mg/kg
	molybdenum polysulphide long chain alkyl dithiocarbamate complex	
Freshwater		0,081 mg/l
Freshwater (ir	ntermittent releases)	0,0962 mg/l
Marine water		0,0081 mg/l
Freshwater se	ediment	195 mg/kg
Marine sedim	ent	19,5 mg/kg
Soil		0,872 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).

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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.

SECTION 9: Physical and chemical properties

<u>9.</u>

0.1. Information on basic physical and cher	nical properties		
Physical state:	Liquid		
Colour:	light brown		
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:		0,9 vol. %	
Upper explosion limits:		7,0 vol. %	
Flash point:		>= 210 °C	EN ISO 2592
Auto-ignition temperature:		not determined	
Decomposition temperature:		not determined	
pH-Value:		not applicable	
Viscosity / kinematic:		47 mm²/s	ASTM D 7042
(at 40 °C)			
Water solubility:		insoluble	
Partition coefficient n-octanol/water:		not determined	
Vapour pressure:		< 0,1 hPa	
(at 20 °C)			
Density (at 15 °C):			DIN EN ISO 12185
Relative vapour density:		not determined	
Particle characteristics:		not applicable	
0.2. Other information			
Other safety characteristics			
Pour point:			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

9.

No information available.

10.2. Chemical stability

No information available.

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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.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation

dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
64742-54-7	distillates (petroleum), hy	drotreated heavy paraffir	lic		-	
	oral	LD50 > 5000,0 mg/kg	Rat			
	dermal	LD50 > 5000,0 mg/kg	Rabbit			
64742-56-9	distillates (petroleum), so	distillates (petroleum), solvent-dewaxed light paraffinic				
	oral	LD50 >5000,0 mg/kg	Rat			
	dermal	LD50 >5000,0 mg/kg	Rabbit			

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. Contains C14-16-18 alkylphenol, molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction.

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
	molybdenum polysulphide	e long chain	alkyl dithioca	arbamate	complex		
	Acute fish toxicity	LL50 mg/l	> 94,8		Oncorhynchus mykiss (Rainbow trout)	ECHA	OECD 203
	Acute algae toxicity	ErC50 mg/l	9,62	72 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EL50	50 mg/l	48 h	Daphnia magna (Big water flea)	ECHA	OECD 202
	Fish toxicity	NOEC mg/l	94,8	4 d	Oncorhynchus mykiss (Rainbow trout)	ECHA	OECD 203
	Crustacea toxicity	NOEC	100 mg/l	21 d	Daphnia magna (Big water flea)	ECHA	OECD 211
	Acute bacteria toxicity	EC50 mg/l()	> 100	3 h			

12.2. Persistence and degradability

There are no data available on the mixture itself.

CAS No	lo Chemical name					
	Method	Value	d	Source		
	Evaluation					
36878-20-3	bis(nonylphenyl)amine					
	0ECD 301B 1 % 28 ECHA					
	Not readily biodegradable (according to OECD criteria)					
	molybdenum polysulphide long chain alkyl dithiocarbamate complex					
	Biodegradation 22,75 % 29					
	Not readily biodegradable (according to OECD criteria)					

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64742-56-9	distillates (petroleum), solvent-dewaxed light paraffinic	>3,50
36878-20-3	bis(nonylphenyl)amine	3,60

BCF

CAS No	Chemical name	BCF	Species	Source
	molybdenum polysulphide long chain alkyl dithiocarbamate complex		Cyprinus carpio (Common Carp)	

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

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.



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List of Wastes Code - residues/unused	-	
	TES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated ing oils; bazardous waste	
Contaminated packaging		
	recycled. Consult the appropriate local waste disposal expert about waste	
disposal.		
SECTION 14: Transport information		
Land transport (ADR/RID)		
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 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 reg	ulations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII 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):	1 - slightly hazardous to water	
15.2. Chemical safety assessment		
Chemical safety assessments for sub	ostances in this mixture were not carried out.	
SECTION 16: Other information		

Changes

This data sheet contains changes from the previous version in section(s): 2,6,8,9,12,13,14,16.

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Abbreviations and acronyms

Asp. Tox: Aspiration hazard Skin Irrit: Skin irritation Skin Sens: Skin sensitisation STOT RE: Specific target organ toxicity - repeated exposure 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 Relevant H and EUH statements (number and full text) H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. H373 H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. EUH208 Contains C14-16-18 alkylphenol, molybdenum polysulphide long chain alkyl dithiocarbamate

- complex. May produce an allergic reaction.
- EUH210 Safety data sheet available on request.

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.)