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

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		ande/mixture and of the company/undertaking
1.1	Product identifier	
		gear oil Article number: 10 92 1829
1.2	Relevant identified uses of the su	ubstance or mixture and uses advised against
1.2.1	Relevant uses	
		Lubricant
1.2.2	Uses advised against	
		None known.
4.2	Details of the sumplion of the option	
1.3	Details of the supplier of the safe Company	SWAG Autoteile GmbH Am Kiesberg 4-6 42117 Wuppertal / GERMANY Phone +49 (0)202 26454-0 Fax +49 (0)202 26454-5000 Homepage www.swag.de E-mail info@swag.de
	Address enquiries to	
	Technical information	info@swag.de
	Safety Data Sheet	info@swag.de
1.4	Emergency telephone number	
	Advisory body	+49 (0)89-19240 (24h) (English)
SEC	TION 2: Hazards identification	
2.1 Classification of the substance or mixture [REGULATION (GB) CLP]		r mixture [REGULATION (GB) CLP]
		Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.
2.2	Label elements	
		The product is required to be labelled in accordance with regulation CLP.
	Hazard pictograms	none
	Signal word	none
	Hazard statements	H412 Harmful to aquatic life with long lasting effects.
	Precautionary statements	P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local/national regulation.
	Special labelling	Contains: Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). EUH208 May produce an allergic reaction.
2.3	Other hazards	
	Physico-chemical hazards	No particular hazards known.
	Human health dangers	Frequent persistent contact with the skin can cause skin irritation. If swallowed or in the event of vomiting, risk of product entering the lungs.
	Environmental hazards	Does not contain any PBT or vPvB substances. Contains no ingredients with endocrine-disrupting properties.
	Other hazards	none
SEC	TION 3: Composition / Information	on ingredients
3.1	Substances	

3.1 Substances

not applicable

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3.2 Mixtures

	Range [%]	Substance	
	0.25- < 1		numbered, C18 unsaturated) alkyl imino) diethanol
	0.25- < 1		
			6, EINECS/ELINCS: 620-540-6, Reg-No.: 01-2119510877-33-XXXX ox. 4: H302 - Skin Corr. 1C: H314 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410,
		M-Factor (acute): 1	0
	0.1 - < 1	Reaction products amines, C12-14-all	of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and
		EINECS/ELINCS: 9	931-384-6, Reg-No.: 01-2119493620-38
		GHS/CLP: Acute T	ox. 4: H302 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411
		SCL [%]: > 50: Eye	Dam. 1: H318, >= 9.39: Skin Sens. 1B: H317, > 50: Eye Irrit. 2: H319
	Comment on com	nponent parts	Contains less than 3% w/w DMSO-extract (only for mineral oils) All chemical substances in this material are included on or exempted from listing on the IECSC Inventory. Substances of Very High Concern - SVHC: substances are not contained or are below 0.1% For full text of H-statements: see SECTION 16.
C	TION 4: First aid	measures	
I	Description of f	irst aid measures	5
	General informati	on	Change soaked clothing.
	Inhalation		Ensure supply of fresh air. In the event of symptoms seek medical treatment.
	Skin contact		When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
	Eye contact		Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
	Ingestion		Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Get medical advice.
2	Most important	symptoms and e	ffects, both acute and delayed
			Irritant effects
3	Indication of an	y immediate med	ical attention and special treatment needed
			Treat symptomatically. Forward this sheet to your doctor.
C	TION 5: Fire-figh	ting measures	
I	Extinguishing n	nedia	
	Suitable extinguis	shing media	Foam, dry powder, water spray jet, carbon dioxide
	_	edia that must not	Full water jet
2	Special hazards	s arising from the	substance or mixture
		-	Not combusted hydrocarbons. Risk of formation of toxic pyrolysis products. Carbon monoxide (CO)

Safety Data Sheet (UK REACH) (GB) gear oil Article number 10 92 1829 SWAG Autoteile GmbH 42117 Wuppertal Date printed 17.02.2023, Revision 17.02.2023



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5.3	Advice for firefighters	
		Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.
		Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
SEC	TION 6: Accidental release measur	res
6.1	Personal precautions, protective	equipment and emergency procedures
		High risk of slipping due to leakage/spillage of product. Forms slippery surfaces with water.
6.2	Environmental precautions	
		Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.
6.3	Methods and material for contain	ment and cleaning up
		Take up with absorbent material (e.g. general-purpose binder). Dispose of absorbed material in accordance within the regulations.
6.4	Reference to other sections	
		See SECTION 8+13
SEC	TION 7: Handling and storage	
7.1	Precautions for safe handling	
		Avoid formation of aerosols.
		Do not eat, drink or smoke when using this product. Use barrier skin cream.
		Wash face and/or hands before break and end of work.
		Cloths contaminated with product should not be kept in trouser pockets. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse.
7.2	Conditions for safe storage, inclu	ding any incompatibilities
		Keep only in original container. Prevent penetration into the ground.
		Do not store together with food and animal food/diet. Do not store together with oxidizing agents.
		Keep container tightly closed. Keep container in a well-ventilated place.
7.3	Specific end use(s)	
		See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not relevant

DNEL

PNEC

Substance
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), CAS: -
Industrial, dermal, Long-term - systemic effects, 12.5 mg/kg bw/d (AF=120)
Industrial, inhalative, Long-term - systemic effects, 4.28 mg/m ³ (AF=30)
general population, oral, Long-term - systemic effects, 0.25 mg/kg bw/d (AF=600)
general population, dermal, Long-term - systemic effects, 6.25 mg/kg bw/d (AF=240)
general population, inhalative, Long-term - systemic effects, 1.09 mg/m ³ (AF=60)
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
Industrial, dermal, Long-term - systemic effects, 420 µg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 2.96 mg/m ³
general population, oral, Long-term - systemic effects, 150 μg/kg bw/day
general population, dermal, Long-term - systemic effects, 150 μg/kg bw/day
general population, inhalative, Long-term - systemic effects, 522 µg/m ³
Substance
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), CAS: -
oral (food), 10 mg/kg dw (AF=300)
soil, 1.17 μg/kg dw
sediment (seawater), 1.29 µg/kg dw
sediment (freshwater), 12.9 µg/kg dw
sewage treatment plants (STP), 24.33 mg/L (AF=100)
seawater, 0.24 µg/L (AF=500)
freshwater, 2.4 µg/L (AF=50)
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
oral (food), 2 mg/kg food
soil, 5 mg/kg soil dw
sediment (seawater), 0.169 mg/kg sediment dw
sediment (freshwater), 1.692 mg/kg sediment dw
sewage treatment plants (STP), 1500 μg/L
seawater, 0.021 µg/L
freshwater, 0.214 µg/L





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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	If there is a risk of splashing: safety glasses (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0.4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3). > 0.4 mm; Neoprene, >480 min (EN 374-1/-2/-3).
Skin protection	light protective clothing
Other	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin.
Respiratory protection	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Physical state	liquid
Form	liquid
Color	light yellow
Odor	characteristic
Odour threshold	not relevant
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	221 (ISO 2592)
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	0.87 (DIN 51757) (15 °C / 59,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	40.8 mm²/s (40°C); (DIN 51562)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

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9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Oxidizing agent Strong basic compounds Strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

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

Acute oral toxicity

Product

oral, Based on the available information, the classification criteria are not fulfilled.

Substance
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), CAS: -
LD50, oral, Rat, 2000 mg/kg
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
LD50, oral, Rat, 1200 - 2000 mg/kg bw
NOEL, oral, Rat, 5 mg/kg bw/day

Acute dermal toxicity

Product

dermal, Based on the available information, the classification criteria are not fulfilled.

Substance	
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6	
No information available.	-

Acute inhalational toxicity

Product inhalative, Based on the available information, the classification criteria are not fulfilled.

Substance
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
No information available.

Serious eye damage/irritation		Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation		Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation		Toxicological data of complete product are not available. May produce an allergic reaction. Calculation method
Specific target organ toxicity — single exposure		Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure		Based on the available information, the classification criteria are not fulfilled.
	Substance	

Substance
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
NOAEL, oral, Dog, 13 mg/kg bw/day

Mutagenicity	Based on the available information, the classification criteria are not fulfilled.	
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.	
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.	
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.	
General remarks		

Toxicological data of complete product are not available.



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The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

11.2 Information on other hazards

Endocrine disrupting properties	Contains no ingredients with endocrine-disrupting properties.
Other information	none

SECTION 12: Ecological information

12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.

Substance	
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphoramines, C12-14-alkyl (branched), CAS: -	rus oxide, propylene oxide and
LC50, (96h), fish, 24 mg/l	
EC50, (48h), Daphnia magna, 91.4 mg/l	
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218	8787-32-6
LC50, (24h), Danio rerio, >0.29 mg/L (OECD 203)	
EC50, (24h), Daphnia magna, 0.21 mg/L (OECD 202)	
EC10, (72h), Daphnia magna, 34.1 µg/L (OECD 201)	
EC10, (21d), Daphnia magna, 10.7 μg/L (OECD 211)	

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecotoxicological data are not available. Do not discharge product unmonitored into the environment or into the drainage.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

	Product	
		In according to RoHS! Coordinate disposal with the authorities if necessary. Disposal in an incineration plant in accordance with the regulations of the local authorities.
	Waste no. (recommended)	130205* mineral-based non-chlorinated engine, gear and lubricating oils
	Contaminated packaging	
		Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
	Waste no. (recommended)	150110* packaging containing residues of or contaminated by hazardous substances
SEC	TION 14: Transport information	
14.1	UN number or ID number	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.2	UN proper shipping name Transport by land according to ADR/RID	NO DANGEROUS GOODS
	Inland navigation (ADN)	NO DANGEROUS GOODS
	Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
	Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"
14.3	Transport hazard class(es) Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable

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14.4	Packing group Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.5	Environmental hazards Transport by land according to ADR/RID	no
	Inland navigation (ADN)	no
	Marine transport in accordance with IMDG	no
	Air transport in accordance with IATA	no
14.6	Special precautions for user	

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	EEC-REGULATIONS	2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
	TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
	- Observe employment restrictions for people	no
	- VOC (2010/75/CE)	0 %
15.2	5.2 Chemical safety assessment	
		not applicable
SEC	TION 16: Other information	

16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H302 Harmful if swallowed.



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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

IVIS = In vitro irritation score

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value - time-weighted average

TLV®STEL = Threshold limit value - short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure Modified position

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method) SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.