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

### 1.1 Product identifier

gear oil

Article number: 10 92 1829

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

1.2.1 Relevant uses

Lubricant

1.2.2 Uses advised against

None known.

## 1.3 Details of the supplier of the safety data sheet

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)

### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms none
Signal word none
Hazard statements none

Special labelling Contains: 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid. 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

## **SECTION 3: Composition / Information on ingredients**

## 3.1 Substances

not applicable



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#### 3.2 Mixtures

#### The product is a mixture.

Range [%]	Substance
0,1 - < 1	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
	EINECS/ELINCS: 931-384-6, Reg-No.: 01-2119493620-38
	GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411
	SCL [%]: > 50: Eye Irrit. 2: H319, >= 9,39: Skin Sens. 1B: H317, > 50: Eye Dam. 1: H318
0,1 - < 1	3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid
	CAS: 268567-32-4, EINECS/ELINCS: 434-070-2, Reg-No.: 01-2119658068-31
	GHS/CLP: Eye Dam. 1: H318 - Skin Sens. 1B: H317 - Aquatic Chronic 3: H412

Comment on component parts For full text of H-statements: see SECTION 16.

Contains less than 3% w/w DMSO-extract (only for mineral oils)

#### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General information 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.

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

Irritant effects

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

Treat symptomatically.

Forward this sheet to your doctor.

# **SECTION 5: Fire-fighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

be used

Full water jet

## 5.2 Special hazards arising from the substance or mixture

Not combusted hydrocarbons.

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO)

## 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.



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## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

 $\label{thm:light} \mbox{High risk of slipping due to leakage/spillage of product.}$ 

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 containment 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

# **SECTION 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, including 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 (UK)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

### DNEL

Substance		
3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4		
Industrial, inhalative, Long-term - systemic effects, 4,4 mg/m³ (AF=25)		
Industrial, dermal, Long-term - systemic effects, 1.25 mg/kg bw/d (AF=100)		
general population, inhalative, Long-term - systemic effects, 1.1 mg/m³ (AF=50)		
general population, dermal, Long-term - systemic effects, 0.6 mg/kg bw/d (AF=200)		
general population, oral, Long-term - systemic effects, 0.6 mg/kg bw/d (AF=200)		
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), CAS: -		
Industrial, inhalative, Long-term - systemic effects, 4.28 mg/m³ (AF=30)		
Industrial, dermal, Long-term - systemic effects, 12.5 mg/kg bw/d (AF=120)		
general population, dermal, Long-term - systemic effects, 6.25 mg/kg bw/d (AF=240)		
general population, oral, Long-term - systemic effects, 0.25 mg/kg bw/d (AF=600)		
general population, inhalative, Long-term - systemic effects, 1.09 mg/m³ (AF=60)		

#### **PNEC**

Substance		
3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4		
freshwater, 0.072 mg/L (AF=50)		
seawater, 0.007 mg/L (AF=500)		
sewage treatment plants (STP), 10 mg/l (AF=10)		
sediment (freshwater), 23 mg/kg dw		
sediment (seawater), 2.3 mg/kg dw		
soil, 4.54 mg/kg dw		
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), CAS: -		
freshwater, 2.4 µg/L (AF=50)		
seawater, 0.24 µg/L (AF=500)		
sewage treatment plants (STP), 24.33 mg/L (AF=100)		
sediment (freshwater), 12.9 μg/kg dw		
sediment (seawater), 1.29 μg/kg dw		
soil, 1.17 μg/kg dw		
oral (food), 10 mg/kg dw (AF=300)		



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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)

The details concerned are recommendations. Please contact the glove supplier for further Hand protection

> 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 mask in the event of high concentrations. Respiratory protection

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**

### Information on basic physical and chemical properties

Physical state liauid **Form** liquid Color light yellow Odor characteristic **Odour threshold** not relevant pH-value not applicable pH-value [1%] not applicable

Boiling point or initial boiling point

and boiling range [°C]

No information available.

224 (ISO 2592) Flash point [°C]

**Flammability** No information available. No information available. Lower explosion limit Upper explosion limit No information available.

Oxidising properties

Vapour pressure/gas pressure [kPa] No information available.

0,87 (DIN 51757) (15 °C / 59,0 °F) Density [g/cm<sup>3</sup>]

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

(log value)

No information available.

42,2 mm<sup>2</sup>/s (40°C); (DIN 51562) Kinematic viscosity

Relative vapour density 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

3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4

LD50, oral, Rat, > 2000 mg/kg bw

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

#### Acute dermal toxicity

Produc

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

Substance

3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4

LD50, dermal, Rat, > 2000 mg/kg bw

#### Acute inhalational toxicity

Product

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

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.

MutagenicityBased on the available information, the classification criteria are not fulfilled.Reproduction toxicityBased on the available information, the classification criteria are not fulfilled.

CarcinogenicityBased on the available information, the classification criteria are not fulfilled.Aspiration hazardBased on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

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

11.2.1 Endocrine disrupting

properties

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information

none



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# **SECTION 12: Ecological information**

## 12.1 Toxicity

Product

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

Substance

3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4

LC50, (96h), fish, 54 mg/l

EC50, (48h), Daphnia magna, 53 mg/l

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), CAS: -

LC50, (96h), fish, 24 mg/l

EC50, (48h), Daphnia magna, 91,4 mg/l

## 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

#### **SECTION 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** 

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

**IMDG** 

Marine transport in accordance with 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

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

**IMDG** 

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

no

Inland navigation (ADN)

Marine transport in accordance with IMDG

DG

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/EG (2000/532/EC ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex I (REACH) The product is not subject to Annex I restrictions.

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances  $\geq$  0.1% that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1%

of substances with the following restrictions. 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to

any restrictions.

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

NATIONAL REGULATIONS (UK): 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 Chemical safety assessment

not applicable

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### **SECTION 16: Other information**

## 16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.

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.

#### 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 none