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

#### 1.1 Product identifier

SWAG 10 90 2615 hydraulic fluid ZH-M Article number: 10 90 2615

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

1.2.1 Relevant uses

Hydraulics oil

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)

Company +49 (0)202 26454-0

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

**Hazard pictograms** 

◈

Signal word DANGER

Contains: Distillates (petroleum), hydrotreated light naphthenic Hazard statements H304 May be fatal if swallowed and enters airways.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of

disposal.

#### 2.3 Other hazards

**Human health dangers** If swallowed or in the event of vomiting, risk of product entering the lungs.

**Environmental hazards**Does not contain any PBT or vPvB substances.

Other hazards No particular hazards known.



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

#### Product-type:

The product is a mixture.

Range [%]	Substance
50 - < 100	Distillates (petroleum), hydrotreated light naphthenic
	CAS: 64742-53-6, EINECS/ELINCS: 265-156-6, EU-INDEX: 649-466-00-2, Reg-No.: 01-2119480375-34
	GHS/CLP: Asp. Tox. 1: H304
0,1 - < 1	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)
	CAS: 4259-15-8, EINECS/ELINCS: 224-235-5, Reg-No.: 01-2119493635-27
	GHS/CLP: Eye Dam. 1: H318 - Aquatic Chronic 2: H411

Comment on component parts

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

For full text of H-statements: see SECTION 16.

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

#### 4.1 Description of first aid measures

**General information** Take off contaminated clothing and wash before reuse.

**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** Seek medical advice immediately.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

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

No information available.

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

If swallowed or in the event of vomiting, risk of product entering the lungs.

Treat symptomatically.

Forward this sheet to the 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

Use self-contained breathing apparatus.

Do not inhale explosion and/or combustion gases.

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

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 hands before breaks and after 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.

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 applicable

#### **DNEL**

Substance	
Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6	
Industrial, inhalative, Long-term - local effects: 5,4 mg/m³.	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8	
Industrial, inhalative, Long-term - systemic effects: 6,6 mg/m³.	
Industrial, dermal, Long-term - systemic effects: 9,6 mg/kg bw/d.	
general population, oral, Long-term - systemic effects: 0,19 mg/kg bw/d.	
general population, dermal, Long-term - systemic effects: 4,8 mg/kg bw/d.	
general population, inhalative, Long-term - systemic effects: 1,67 mg/m³.	

#### **PNEC**

Substance	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8	
oral (food), 8,33 mg/kg food.	
soil, 0,0548 mg/kg dw.	
sediment (seaater), 0,00701 mg/kg dw.	
sediment (freshwater), 0,0701 mg/kg dw.	
sewage treatment plants (STP), 3,8 mg/l.	
seawater, 4,6 µg/l.	
freshwater, 4 μg/l.	

#### 8.2 Exposure controls

Additional advice on system design 

Ensure adequate ventilation on workstation.

General exposure limit for oil mist should be noted.

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** 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** Breathing apparatus in the event of aerosol or mist formation.

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.



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# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Form liquid

Color light yellow

Odor characteristic

Odour threshold not applicable
pH-value [1%] not applicable

Boiling point [°C]

Flash point [°C]

Flammability (solid, gas) [°C]

Lower explosion limit

No information available.

Upper explosion limit

No information available.

No information available.

Oxidising properties no

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

**Density [g/ml]** 0,87 (DIN 51757) (15 °C / 59,0 °F)

Bulk density [kg/m³] not applicable

Solubility in water immiscible

Partition coefficient [n-octanol/water] No information available.

Viscosity 17,1 mm<sup>2</sup>/s (40°C) (DIN 51562)

Relative vapour density determined

in air

No information available.

Evaporation speed No information available.

Melting point [°C] No information available.

Autoignition temperature [°C] No information available.

Decomposition temperature [°C] No information available.

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 strong oxidizing agents.

# 10.4 Conditions to avoid

Strong heating.

#### 10.5 Incompatible materials

Oxidizing agent strong acids Strong basic compounds

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.



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#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Product

#### **Acute toxicity**

Toddot	
oral, Based on the available information, the classification criteria are not fulfilled.:	
inhalative, Based on the available information, the classification criteria are not fulfilled.:	
dermal, Based on the available information, the classification criteria are not fulfilled.:	
Substance	
Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6	
LD50, dermal, Rabbit: > 2000 mg/kg bw.	
LD50, oral, Rat: > 5000 mg/kg bw.	
LC50, inhalative, Rat: > 5,53 mg/l/4h (dust/mist).	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8	
LD50, dermal, Rabbit: > 5000 mg/kg bw (OECD 402).	

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 Based on the available information, the classification criteria are not fulfilled. Specific target organ toxicity — Based on the available information, the classification criteria are not fulfilled. single exposure Specific target organ toxicity — Based on the available information, the classification criteria are not fulfilled. repeated exposure 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. Based on the available information, the classification criteria are not fulfilled. Carcinogenicity **Aspiration hazard** Based on the available information, the classification criteria are fulfilled. May be fatal if swallowed and enters airways. On basis of test data

LD50, oral, Rat: > 3100 mg/kg bw (OECD 401)

**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.

#### **SECTION 12: Ecological information**

# 12.1 Toxicity

Product		
Based on the available information, the classification criteria are not fulfilled.:		
Substance		
Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6		

IC50, (48h), Algae: > 100 mg/l.

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8

LC50, (96h), Oncorhynchus mykiss: 1 - 10 mg/l.

LC50, (96h), fish: > 100 mg/l.

EC50, (72h), Desmodesmus subspicatus: > 240 mg/l.

EC50, (48h), Daphnia magna: 1 - 10 mg/l (OECD 202).



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#### 12.2 Persistence and degradability

Behaviour in environment

τ

not determined

compartments
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 Other adverse effects

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

#### **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.

Dispose of as hazardous waste.

Waste no. (recommended) 130205\* mineral-based non-chlorinated engine, gear and lubricating oils

130110\*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150102

150104 150110\*

# **SECTION 14: Transport information**

#### 14.1 UN 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



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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

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

**IMDG** 

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

**IMDG** 

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN)

Marine transport in accordance with no

**IMDG** 

Air transport in accordance with IATA no

14.6 Special precautions for user

not applicable

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable



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#### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**EEC-REGULATIONS** 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008;

75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

CHIP 3/ CHIP 4

- Observe employment restrictions

for people

Observe employment restrictions for mothers-to-be and nursing mothers. Observe  $\,$ 

employment restrictions for young people.

- VOC (2010/75/CE) 0 %

#### 15.2 Chemical safety assessment

not applicable

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

# 16.1 Hazard statements (SECTION 03)

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

#### 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

ELINCS = European List of Notified Chemical Substances

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

LC50 = Lethal concentration, 50%

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

LOAEL = lowest-observed-adverse-effect level

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 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (On basis of test data)



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#### **Modified position**

SECTION 8 been added: 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.

SECTION 10 been added: Strong basic compounds

SECTION 10 been added: strong acids SECTION 10 been added: Oxidizing agent