

Date printed 28.10.2019, Revision 24.10.2019

Version 09. Supersedes version: 08 Page 1 / 10

SEC	SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1	1.1 Product identifier		
		SWAG 10 90 2615 hydraulic fluid ZH-M	
		Article number: 10 90 2615	
1.2	Relevant identified uses of the s	ubstance or mixture and uses advised against	
1.2.1	I Relevant uses		
		Hydraulics oil	
1.2.2	2 Uses advised against		
		None known.	
1.3	Details of the supplier of the saf	etv data sheet	
1.0	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	
		L-mail moeswag.ue	
	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	
SEC	TION 2: Hazards identification		
2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]			
		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.	



Date printed 28.10.2019, Revision 24.10.2019

SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

	Range [%] Substance		
		e staslasses). In she to stad Paliti see lathers?	
	50 - < 100		
	CAS. 64742-53-6, EINECS/ELINCS. 265-156-6, EU-INDEX. 649-466-00-2, Reg-No.: 01-2119460375-34 GHS/CLP: Asp. Tox. 1: H304		
		O-bis(2-ethylhexyl)] bis(dithiophosphate)	
		-15-8, EINECS/ELINCS: 224-235-5, Reg-No.: 01-2119493635-27-XXXX	
		Eye Dam. 1: H318 - Aquatic Chronic 2: H411	
		· · · · · · · · · · · · · · · · · · ·	
	Comment on component part	 Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16. 	
SEC	TION 4: First aid measures		
4.1	.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 immediat	te medical attention and special treatment needed	
7.5	indication of any initiadia	If swallowed or in the event of vomiting, risk of product entering the lungs.	
		Treat symptomatically.	
		Forward this sheet to the doctor.	
SEC	TION 5: Fire-fighting measu	Irac	
3LU	TON 5. The nyming measu	1105	
5.1	Extinguishing media		
	Suitable extinguishing media	foam, dry powder, water spray jet, carbon dioxide	
	Extinguishing media that mus be used	st not Full water jet	
5.2	Special hazards arising fro	om 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.	

Date printed 28.10.2019, Revision 24.10.2019



Version 09. Supersedes version: 08 Page 3 / 10

SEC	TION 6: Accidental release measu	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 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, inclu	uding 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 2	Specific and use(c)	
7.3	Specific end use(s)	

See product use, SECTION 1.2

42117 Wuppertal

Date printed 28.10.2019, Revision 24.10.2019



Version 09. Supersedes version: 08 Page 4 / 10

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

DNEL

Distillates (petroleu	m), hydrotreated light naphthenic, CAS: 64742-53-6	
N.	e, Long-term - local effects: 5,4 mg/m ³ .	
Zinc bis[O,O-bis(2-e	ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8	
Industrial, inhalative	e, Long-term - systemic effects: 6,6 mg/m ³ .	
Industrial, dermal, L	.ong-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/m ³ .	

PNEC

Substance
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
oral (food), 8.33 mg/kg food (AF=300).
soil, 0.062 mg/kg dw.
sediment (seawater), 0.0322 mg/kg dw.
sediment (freshwater), 0.322 mg/kg dw.
sewage treatment plants (STP), 3.8 mg/L (AF= 100).
seawater, 4.6 µg/L (AF= 10 000).
freshwater, 4 μ g/L (AF= 100).

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.

Date printed 28.10.2019, Revision 24.10.2019



Version 09. Supersedes version: 08 Page 5 / 10

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	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	152 (EN 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/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 mm²/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.



Version 09. Supersedes version: 08 Page 6 / 10

42117 Wuppertal

Date printed 28.10.2019, Revision 24.10.2019

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

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 — 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.
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 fulfilled. May be fatal if swallowed and enters airways. On basis of test data
General remarks	
	Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in t 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
LC50, (96h), fish: > 100 mg/l.
IC50, (48h), Algae: > 100 mg/l.
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
EL50, (48h), Daphnia magna: 75 mg/l (OECD 202).
NOEC, (21d), Daphnia magna: 0,4 mg/l (OECD 211).
LL50, (96h), Rainbow trout: 4,4 mg/l (OECD 203).
ErL50, (72h), Scenedesmus subspicatus: 410 mg/l (OECD 201).
EbL50, (72h), Scenedesmus subspicatus: 240 mg/l (OECD 201).

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Date printed 28.10.2019, Revision 24.10.2019

Version 09. Supersedes version: 08 Page 7 / 10

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 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 c 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

42117 Wuppertal

Date printed 28.10.2019, Revision 24.10.2019



Version 09. Supersedes version: 08 Page 8 / 10

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
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 t	0 8.
	not applicable	
14.7	Transport in bulk according to An	nex II of MARPOL and the IBC Code
	not appliable	

not applicable



Date printed 28.10.2019, Revision 24.10.2019



Version 09. Supersedes version: 08 Page 9 / 10

SECTION 15: Regulatory info	ormation
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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 (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
	TRANSPORT-REGULATIONS	ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
	- 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
SEC [.]	TION 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 DMEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau EEC = European List of Notified Chemical Substances ELINCS = European Inventory of Existing Commercial Chemical Substances ELINCS = European List of Notified Chemical Substances ELINCS = European List of Notified Chemical Substances ELINCS = Letrenational Air Transport Association IBC-Code = International Air Transport Association IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IC50 = Inthibition concentration, 50% IMDG = International Uniform ChemicaL Information Database LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC61 = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level MARPOL = International Convention for the Pr
40.0		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)

Modified position

Date printed 28.10.2019, Revision 24.10.2019



Version 09. Supersedes version: 08 Page 10 / 10