

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Chemical name/ trade name: **HVLP 68**

Producer: **OMA CZ, a.s.**

Address: **Borová 103, 47127, Stráž pod Ralskem**

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

Intended use: It is intended for use in propulsion systems, heavy-duty drive systems, high pressure piston pumps with constant and alternating output and vane pumps, hydraulic control systems and hydraulic systems that require small changes in viscosity with temperature changes.

Uses advised against: The use should be limited to those listed above.

1.3 Details of the supplier of the safety data sheet

Supplier of SDS: OMA CZ, a.s.

Address: Stráž pod Ralskem, 47127, Borová 103

Identification No.: 25406761

Tel: +420 487 851 016

www: www.omacz.cz

Responsible person for this SDS: OMA CZ, a.s., laborator@omacz.cz

1.4 Emergency telephone number

Toxicology Information Centre, Na Bojišti 1, 120 00 Prague 2. Emergency telephone: +420 224 91 92 93 or +420 224 91 54 02, www.tis-cz.cz

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to the EC Regulation No. 1272/2008 (CLP):**

The mixture is not classified as hazardous according to Regulation No. 1272/2008.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictogram(s): None.

Signal word(s): None.

Contain: -

Hazard statement(s): None.

Precautionary statement(s): None.

Supplemental information: None.

2.3 Other hazards

This product does not contain any substances which are classified as PBT or vPvB in a concentration of 0.1% by weight or higher.

This product does not contain SVHC in a concentration of 0.1% by weight or higher.

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Name of the component	Content (weight %)	CAS EINECS Index N° Reg. Number	Classification according to Regulation (EC) No. 1272/2008 (CLP)

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	0,24 - 0,3	4259-15-8 224-235-5 01-2119493635-27-0000	Aquatic Chronic 2 Eye Dam. 1	H411 H318
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For full text of H-statements see SECTION 16.

The base oils used are not classified as carcinogenic. DMSO extract content (according to IP 346) < 3 %. Based on viscosity, the product does not create an aspiration hazard.

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 General advice:

In the event of an accident or if you feel unwell, seek medical attention immediately (show this BL or label if possible).

4.1.2 Inhalation:

Break Exposure. Remove victim to fresh air, keep calm and warm.

4.1.3 Skin contact:

Remove contaminated clothing and footwear. Wash the affected skin with water and soap. If there is irritation, seek medical attention.

4.1.4 Eye contact:

If the contact lenses are used, carefully remove them and start rinsing with clean water, the affected eye wide open, from the inner corner to the outside and also under the lid for at least 15 minutes. If problems persist, seek medical attention.

4.1.5 Ingestion:

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person or if it has cramps.

4.1.6 Protection of first aiders:

When providing first aid, it is essential to ensure both the rescue and the rescued safety.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Do not induce vomiting. Never administer anything into the mouth of an unconscious person. If medical attention is sought, medical attention, show the MSDS, label or product packaging to the physician. Persons providing assistance in an area with unknown vapour/fog concentrations should be equipped with appropriate respiratory protection. Instructions to physicians: Use symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Foam, extinguishing powder, CO₂, water mist.

Unsuitable extinguishing media: Direct water flow - could cause fire to spread.

5.2 Special hazards arising from the substance or mixture

Flammable product with high flash point. In case of fire, dangerous gases may be produced: carbon oxides, nitrogen oxides, sulphur oxides, unidentified thermal decomposition products of higher hydrocarbons. Avoid products of combustion, they can be hazardous to health.

5.3 Advice for firefighters

Do not enter the fire area without protective equipment, including self-contained breathing apparatus. Use a water shower or mist to cool containers exposed to fire. Avoid leakage of extinguishing waters into the environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, replace contaminated clothing. Avoid contact with skin and eyes, contamination of clothes and shoes. Ensure ventilation of the affected area. All persons who do not participate in rescue operations to a safe distance.

6.2 Environmental precautions

Prevent leakage into the environment, avoid ingress into surface water and sewers, soil and land. In case of leakage into the sewage system or water course, inform immediately its administrator, the police, the fire brigade or the environmental department.

6.3 Methods and material for containment and cleaning up

In case of leakage, localize and, if possible, absorb / remove mechanically. Residues or smaller amounts sweep / get absorbed into a suitable absorbent (universal sorbent, diatomaceous earth, soil, sand) and place in suitable containers and labeled for disposal transmit in accordance with applicable regulations.

6.4 Reference to other sections

See section 7, 8 a 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure sufficient overall ventilation. Avoid contact with eyes, skin or clothing. Avoid inhalation of mists/vapours. Keep unused containers tightly closed. Observe basic hygiene principles. Do not eat, drink or smoke while using this product. Wash your hands with water whenever you finish/stop working. Do not use soiled clothing. Remove all contaminated clothing immediately and wash before reuse. WARNING: Place contaminated clothing in a safe place away from heat and ignition sources. Wear personal protective equipment in accordance with the information in Section 8 of the MSDS.

7.2 Conditions for safe storage, including any incompatibilities

Store only in tightly closed containers in a cool and well-ventilated place. Store in a place with a non-absorbent substrate. Store the product in storage tanks in accordance with applicable regulations. Avoid direct sunlight, heat sources. Protect the product against contamination and watering. Store the product at a safe distance from strong oxidizing agents. Storage temperature :-20 - 40 °C

7.3 Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Exposure limits:

According to national legislation of target country.

Substance	CAS	Permissible exposure limits (mg/m ³)	Maximum permissible concentration (mg/m ³)	Note
Mineral oils	-	5	10	

Substances with Community Exposure Limits:

Substance	CAS	Limit values (mg/m ³)		Note
		OEL	STEL	
No data available.				

8.1.2 DNEL

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

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
Workers				
Inhalation	Long-term (chronic)	systemic	mg/m ³	6.6
Dermal	Long-term (chronic)	systemic	mg/kg bw/d	9.6

Consumers				
Inhalation	Long-term (chronic)	systemic	mg/m ³	1.67
Dermal	Long-term (chronic)	systemic	mg/kg bw/d	4.8
Oral	Long-term (chronic)	systemic	mg/kg bw/d	0.19

PNEC

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

Component of the environment		PNEC	Unit	Value
Water environment	Freshwater	PNEC _{water, fresh.}	mg/L	0.004
	Freshwater, occasional leakage	PNEC _{water, fresh.}	mg/L	0.044
	Freshwater sediment	PNEC _{sed., fresh.}	mg/kg sediment dw	0.322
	Seawater	PNEC _{water, mar.}	mg/L	0.0046
	Marine sediment	PNEC _{sed., mar.}	mg/kg sediment dw	0.032
Microbiological activity	Wastewater treatment plant	PNEC _{sew. treat.}	mg/L	3.8
Terrestrial environment / organisms	Soil	PNEC _{soil}	mg/kg soil dw	0.062
Food chain	Predators	PNEC _{oral.}	mg/kg food	8.33

8.1.3 Biological limit values

Substance	CAS No:	Indicator	Limit Value
No data available.			

8.2 Exposure controls

8.2.1 Technical measures

Technical measures and appropriate work procedures take precedence over personal protective equipment. Observe the usual hygiene principles. Do not eat, drink, smoke. Before breaks and after work wash your hands with warm water and soap.

8.2.2 Individual protection measures

Respiratory protection:

If the exposure limits are exceeded, when using dust, fog, aerosol, use a suitable filter (type ABEK -EN 14387 - anti-gas and combined filters, type P -EN 143 - particle filters, type FFP3 / FFP2 - EN 149+A1 - Particle-based half masks; EN 142 - mouth masks).

Hand protection:

Protective working gloves (EN 374). Observe the manufacturer's exact instructions, including the time of use. Replace damaged gloves.

Eye / face protection:

Safety glasses with side-plates or facial shields (EN 166); eye and face protection for work use (EN ISO 16321).

Skin protection:

Working clothes (EN ISO 13688) and footwear (EN ISO 20347 and ISO 20345). Protective clothing against liquid chemicals (EN 14605+A1). Protective clothing against chemicals (EN ISO 14325).

8.2.3 Thermal hazards:

No data available.

8.2.4 Environmental exposure controls:

Avoid unnecessary releases into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property	Value	Method	Note
Physical state:	Clear liquid		
Colour:	Brown, Straw		
Odour:	Weak, characteristic		

Odour threshold:	No data available.		
pH :	No data available.		
Freezing point (°C):	max. - 18		
Boiling point or initial boiling point and boiling range (°C):	No data available.		
Flash point (°C):	225		
Evaporation rate:	No data available.		
Flammability (gases, liquids and solids):	No data available.		
Lower and upper explosion limit:	flammability of oil mist at a concentration of about 45 g/m ³		
Vapour pressure (20 °C):	No data available.		
Vapour pressure (50 °C):	No data available.		
Relative vapour density:	No data available.		
Density and/or relative density (g/cm ³ , 20 °C):	0.85 - 0.9		
Solubility (20 °C):	Insoluble in water. soluble in hydrocarbons		
Partition coefficient n-octanol/water (log value):	No data available.		
Auto-ignition temperature (°C):	No data available.		
Decomposition temperature (°C):	No data available.		
Kinematic viscosity (mm ² /s):	61,2 - 74,8 at 40 °C		
Refractive index (20 °C):	No data available.		
Oxidising properties:	No data available.		
Explosive properties:	No data available.		
Particle characteristics:	No data available.		

9.2 Other information

VOC (%): 0
 Dry matter content: No data available.
 Additional information: No data available.

9.2.1 Information with regard to physical hazard classes

The product has no physical hazards.

9.2.2 Other safety characteristics

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not expected under proper conditions of use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Dangerous reactions are not known.

10.4 Conditions to avoid

Open flames, high temperatures, and other sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products are not known.

SECTION 11: Toxicological information

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

Individual components:

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

Acute toxicity

Test type	Results	Exposure	Tested organisms
OECD 401, key study	3 100 mg/kg bw, LD50	oral: gavage	rat
OECD 402, key study	> 5 000 mg/kg bw, LD50	dermal	rabbit

Serious eye damage / irritation

Test type	Results	Exposure	Tested organisms
OECD 405, key study	Category 1 (irreversible effects on the eye) based on GHS criteria	Eye	rabbit

Skin corrosion / irritation

Test type	Results	Exposure	Tested organisms
OECD 404, key study	not irritating	Skin	rabbit

Respiratory or skin sensitisation

Test type	Results	Exposure	Tested organisms
OECD 406, key study	not sensitising	Skin	guinea pig

STOT - repeated exposure

Test type	Results	Exposure	Tested organisms
OECD 407, key study	125 mg/kg bw/day (nominal), NOAEL	oral	rat

Carcinogenicity

Test type	Results	Exposure	Tested organisms
	No data available.		

Germ cell mutagenicity

Test type	Results	Exposure	Tested organisms
OECD 474, key study	negative	intraperitoneal	mouse

Reproductive toxicity

Test type	Results	Exposure	Tested organisms
OECD 421, key study	30 mg/kg bw/day, NOAEL 30 mg/kg bw/day, NOAEL	oral: gavage	rat

Mixture:

Acute toxicity:	The product does not meet the criteria for classification.
Serious eye damage / irritation:	The product does not meet the criteria for classification.
Skin corrosion / irritation:	The product does not meet the criteria for classification.
Respiratory or skin sensitisation:	The product does not meet the criteria for classification.
STOT - single exposure:	The product does not meet the criteria for classification.
STOT - repeated exposure:	The product does not meet the criteria for classification.
Carcinogenicity:	The product does not meet the criteria for classification.
Germ cell mutagenicity:	The product does not meet the criteria for classification.

Reproductive toxicity: The product does not meet the criteria for classification.
Aspiration hazard: The product does not meet the criteria for classification.

11.2 Information on other hazards**Endocrine disrupting properties**

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

Other information

No data available.

SECTION 12: Ecological information**12.1 Toxicity**

The product does not meet the criteria for classification.

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

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Oncorhynchus mykiss</i>	4.4 mg/L, LL50 / 96 h 3.2 mg/L, NOELR / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Daphnia magna</i>	75 mg/L, EL50 / 48 h 32 mg/L, NOELR / 48 h	OECD 202
Acute toxicity to aquatic algae	<i>Desmodesmus subspicatus</i>	410 mg/L, EL50 / 72 h 240 mg/L, EL50 / 72 h	OECD 201

12.2 Persistence and degradability

There is no data available for the product.

Biotic degradation: Data are not available for substances.

12.3 Bioaccumulative potential

There is no data available for the product.

log Kow / log Pow: Data are not available for substances.

Bioaccumulation: Data are not available for substances.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This product does not contain any substances which are classified as PBT or vPvB in a concentration of 0.1% by weight or higher.

12.6 Endocrine disrupting properties

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****13.1.1 Catalogue No. of substance/mixture waste:**

13 01 10 Mineral based non-chlorinated hydraulic oils

13.1.2 Catalog No. of packaging waste:

15 01 10 packaging containing residues of or contaminated by hazardous substances

13.1.3 Recommended procedure for substance/mixture waste disposal:

No data available.

13.1.4 Recommended procedure for packaging disposal:

Empty containers must be disposed of in accordance with the applicable waste legislation. After perfect cleaning, the packaging can be used as a secondary raw material for the same purpose. Recommended way of disposing of recycling, burning in a hazardous waste incinerator or storing hazardous waste.

13.1.5 Physical / chemical properties that may affect waste treatment method:

No data available.

13.1.6 Sewage disposal-relevant information:

Protect against weathering. Prevent leakage of waste into the water / soil / sewage system. In case of leakage, inform the competent authorities.

13.1.7 Other disposal recommendations:

Dispose of in accordance with applicable legislation.

SECTION 14: Transport information

	Type of transport	Land transport ADR / RID	Sea transport IMDG	Air Transport ICAO / IATA
14.1	UN number or ID number	There is no dangerous good in terms of transport.	There is no dangerous good in terms of transport.	There is no dangerous good in terms of transport.
14.2	UN proper shipping name			
14.3	Transport hazard class(es)			
	Classification code	-	-	-
	Labels			
14.4	Packing group			

14.5 Environmental hazards

No data available.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not specified.

Other information

Type of transport	Land transport ADR / RID	Sea transport IMDG	Air Transport ICAO / IATA
Limited quantities:			
Excepted quantities:			
Transport category:		-	-
Tunnel restriction code:		-	-
Segregation group:	-		-

SECTION 15: Regulatory information

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

all as amended and including implementing regulations

Regulation (EC) No. 1272/2008 (CLP) on classification, labelling and packaging of substances and mixtures,...

Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),...

Applicable national regulations.

15.2 Chemical safety assessment

Chemical safety assessment hasn't been made.

SECTION 16: Other information**Complete text of all classifications and hazard classes referred to in SECTION 3:**

Hazard class:	Aquatic Chronic 2 - Chronic (long term) aquatic hazard, category 2 Eye Dam. 1 - Serious eye damage, category 1
H-statements:	H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.

Abbreviations

ADR	Accord Dangereuses Route
CAS	Chemical Abstracts Service
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effect level for 50%
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LD50	Lethal dose for 50%
LL50	Lethal load for 50%
NOAEL	No observable adverse effect level
NOEL	No observable effect level
NPK-P	Maximum permissible concentration
OEL	Occupational Exposure Limit (workplace exposure limit - 8 hours / shift)
PBT	Persistent, bioaccumulative and toxic
PEL	Permissible exposure limits
PNEC	Predicted no-effect concentration
RID	Regulations for the International Carriage of Dangerous Goods by Rail
STEL	Short Term Exposure Limit (short exposure - corresponds to approx. 15 min.)
VOC	Volatile organic substances
vPvB	Very persistent and very bioaccumulative
WGK	Hazard classes for water (Wassergefährdungsklassen)
TRGS	German standard for the storage of hazardous substances (Technische Regeln für Gefahrstoffe)

Changes to previous version SDS:

New SDS based on Commission Regulation (EU) 2020/878. The classification has been performed by calculation method.

Instructions for training

Workers who come into contact with dangerous substances must be aware of the effects of these substances, how they are treated, and protective measures to the extent necessary. Furthermore, they must be familiar with the first aid principles, with the necessary sanitation procedures and with the procedures for disaster and accident elimination. The person handling this chemical product must be familiar with the safety rules and the data given in the safety data sheet.

Other information

The above information describes the conditions for safe handling of the product and corresponds to the current knowledge of the manufacturer and serves as instruction for the training of the persons handling the product.

The manufacturer carries guarantee the above-described properties of the product at the recommended use.

The user is responsible for determining the suitability of the product for specific purposes and adapting security measures if such application is contrary to the manufacturer's recommendations.