Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.03.2026 Version number 1.00 Revision: 12.03.2026

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

1.1 Product identifier

Trade name: CLASSIC HAMDIR UM 68 HLP-D ZF

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

No further relevant information available.
Application of the substance / the mixture hydraulic fluid

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
CLASSIC Schmierstoff GmbH & Co. KG
Lange Straße 100-106
D-27318 HOYA
GERMANY
Phone: +49 (4251) - 8120
products@classic-oil.de

Further information obtainable from: product management

1.4 Emergency telephone number: 24-hour emergency contact number : +1 872 5888271 (CSG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
The product is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void
Hazard pictograms Void
Signal word Void
Hazard statements Void
Additional information:
EUH210 Safety data sheet available on request.

2.3 Other hazards For information or further instructions, see also section 11 or 12.

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable
Determination of endocrine-disrupting properties No ingredient is listed.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
EC number: 931-384-6 Reg.nr.: 01-2119493620-38	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxides, propylene oxides and amines, C12-14-alkyl (branched)	0.1-<0.2%
	Aquatic Chronic 2, H411; Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 50 % Skin Sens. 1; H317: C ≥ 9.39 %	

SVHC
This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.
Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
In case of accident or unwellness, seek medical advice immediately.
If possible, show operating instructions or safety data sheet.
After inhalation:
In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.
After skin contact:
After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists. Remove contaminated clothing.
After eye contact:
Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.
After swallowing:
Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect).
Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.
4.2 Most important symptoms and effects, both acute and delayed
If swallowed or vomited, danger of entering the lungs.
4.3 Indication of any immediate medical attention and special treatment needed
Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
Sand. Foam. Carbon dioxide (CO2). Extinguishing powder. For large fires and large quantities: Water spray, water mist.
For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture
When burning strong soot development
Can be released in case of fire: Carbon monoxide Carbon dioxide (CO2) Sulphur dioxide (SO2) Nitrogenoxides (NOx)
5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.
Protective equipment: Wear self-contained respiratory protective device.
Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.
For non-emergency personnel Personal protective equipment
For emergency responders No special precautions are necessary.
6.2 Environmental precautions:
Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

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6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Wear suitable protective clothing.
Avoid formation of oil dust.
Information about fire - and explosion protection:
Usual measures of preventive fire protection
Fire class B
Keep ignition sources away - Do not smoke.

Handling:
Information on general hygiene measures at the workplace:
Ensure thorough skin cleansing and skin care after work.
Do not carry product-soaked cleaning rags in trouser pockets.
Do not breathe vapour/aerosol. Avoid contact with eyes and skin.
Advices on general occupational hygiene: See section 8.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Keep container tightly closed in a dry, cool and well-ventilated place.
Use only receptacles specifically permitted for this substance/product.
Information about storage in one common storage facility:
Do not store together with: Gas. Explosives. Oxidizing substances. Radioactive substances. Infectious substances.
Further information about storage conditions:
Temperature control required. Protect from light. Keep container tightly closed. Do not allow contact with air.
Storage class: 10 (TRGS 510)
7.3 Specific end use(s) See section 1.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs		
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)		
Oral	long-term, oral, systemic	0.25 mg/kg KG/d (Consumer)
Dermal	DNEL, long-term, dermal, systemic	12.5 mg/kg KG/d (worker)
	DNEL, long-term, dermal, systemic	6.25 mg/kg KG/d (Consumer)
	acute, dermal, local	0.024 mg/cm² (Consumer)
Inhalative	DNEL, long-term, inhalation, systemic	4.28 mg/m³ (worker)
	DNEL, long-term, inhalation, systemic	1.09 mg/m³ (Consumer)

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PNECs	
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	
PNEC (Freshwater)	0.0024 mg/l
Freshwater (intermittent releases)	0.15 mg/l
PNEC (Seawater)	0.00024 mg/l
PNEC Wastewater treatment plant	24.33 mg/l
PNEC (freshwater sediment)	0.0129 mg/kg
PNEC (Seawater sediment)	0.00129 mg/kg
PNEC (ground)	0.00117 mg/kg
PNEC Secondary poisoning	10 mg/kg

Additional information:
Additional information on limit values
Airborne limit values:
Possibility of exposure to aerosol (mineral oil).
Limit value (TLV-TWA) = 5 mg/m3 - Source: ACGIH
TLV-STEL = 10 mg/m3 - Source: ACGIH
STEL: short-term exposure limits
TLV: Threshold Limiting Value
TWA: time weighted average
ACGIH:American Conference of Governmental Industrial Hygienists
The data sheets of the upstream suppliers and lists valid at the time of production serve as a basis.

8.2 Exposure controls
Appropriate engineering controls Ensure good ventilation of the work station.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures: Wash hands before breaks and at the end of work.
Respiratory protection:
With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at:
-aerosol or mist formation
-Exceeding exposure limit values
Suitable respiratory protection apparatus: Respiratory equipment in case of nebulosity or aerosol: Use a mask with a filter type A2, A2/P2 or ABEK.
The respiratory protection filter class must be adapted to the maximum pollutant concentration (gas/vapour/aerosol/particles) that can arise when handling the product. If the concentration is exceeded, insulating equipment must be used!
Hand protection

Protective gloves

The design of chemical protective gloves must be selected specifically for the workplace, depending on the concentration and quantity of hazardous substances.
It is recommended to check the chemical resistance of the above mentioned protective gloves for specific applications with the glove manufacturer.
Gloves must be checked regularly and replaced in case of wear, holes or contamination.
If gloves are to be reused, clean them before taking them off and store them in a well-ventilated place.
Material of gloves
Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 347/EN 388.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection
Safety goggles with side shield, in case of increased splash hazard additional face shield. DIN EN 166

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Body protection:
Heavy flammable, oil-repellent protective clothing
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).
Thermal hazards
Wear protective clothing when working with hot material: heat-resistant overalls (with trouser legs over the boots and sleeves over the glove cuffs), heat-resistant, high-performance, non-slip boots (e.g. leather).
Environmental exposure controls There are no data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Liquid
Colour:	Clear
Odour:	Not determined
Odour threshold:	Not determined
Melting point/freezing point:	Undetermined
Boiling point or initial boiling point and boiling range	Undetermined
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined
Flash point:	235 °C (DIN ISO 2592)
Decomposition temperature:	Not determined
pH	Mixture is non-soluble (in water).
Viscosity:	
Kinematic viscosity at 40 °C	68.9 mm²/s (DIN EN ISO 3104)
Dynamic:	Not determined
Solubility	
water:	Immiscible
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density at 15 °C:	0.883 g/cm³ (DIN 51757)
Relative density	Not determined
Vapour density	Not determined

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not determined
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Drip point:	
Pour point	-21 °C (ASTM D 5985)
Evaporation rate	Not determined

Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void

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Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Information on the shelf life
The product is chemically stable under the recommended storage, use and temperature conditions.
10.3 Possibility of hazardous reactions
No dangerous reactions known.
Refer to chapter 10.5.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials: Materials to avoid: Strong oxidizing agents
10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)		
Oral	LD50 oral	>2,000 mg/kg (Rat) (OECD Guideline 401)

Primary irritant effect:
Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched):
Subacute oral toxicity: Method: -; Species: Rat;Results: NOAEL = 150 mg/kg; Literature information: ECHA Dossier
Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.

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Additional toxicological information:		
Oral	ATE	>2,000 mg/kg (Calculated)
Dermal	ATE	>2,000 mg/kg (Calculated)
Inhalative	ATE Dust/Mist	>5 mg/L (Calculated)
	ATE Vapour	>20 mg/L (Calculated)

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
Based on available data, the classification criteria are not met.
Reaction products of bis (4-methyl-pentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):
In vitro mutagenicity/genotoxicity:
Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test);
Result: negative. Literature reference: ECHA Dossier;
Reproductive toxicity:
Species: Rat (Wistar);
Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test);
Result: NOAEL = 150 mg/kg Literature reference: ECHA Dossier;
Developmental toxicity/teratogenicity:
Species: Rat (Wistar);
Method: other guideline:
Reproduction/developmental screening test. Result: NOAEL = 150 mg/kg;
Literature reference: ECHA Dossier

11.2 Information on other hazards
Endocrine disrupting properties
This product does not contain any substance (> 0.1%) with endocrine disrupting properties towards non-target organisms, as no ingredient fulfils the criteria.

None of the ingredients is listed.

Other information Frequent contact may cause skin and eye irritation, especially after drying.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	
ErC50	6.4 mg/l /(96h) (Pseudokirchnerella subcapitata) (OECD 201)
EL50	~91.4 mg/l /(48h) (Daphnia magna) (OECD 202)
EC50	2,433 mg/L (Bacteria)
LC50	8.5 mg/L /(96h) (Oncorhynchus mykiss) (OECD 203)

12.2 Persistence and degradability
The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	
Persistence and degradability	3.6 % /(28d) ASTM D-5864-95 not easily degradable

12.3 Bioaccumulative potential
No indication of bioaccumulation potential.

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	
BCF	436 (Oncorhynchus mykiss)
Partition coefficient n-octanol/water	<0.3

12.4 Mobility in soil No further relevant information available.

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12.5 Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
The above statement applies to the substances contained in the product from 0.1 %.
PBT: Not applicable
vPvB: Not applicable

12.6 Endocrine disrupting properties
This product does not contain any substance that exhibits endocrine disrupting properties towards non-target organisms, as no ingredient fulfils the criteria.
The above statement applies to the substances contained in the product from 0.1 %.

12.7 Other adverse effects
Other information: Ozone depletion potential (ODP): No information available.
Additional ecological information:
General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation Dispose of waste according to applicable legislation.

European waste catalogue	
15 01 10*	packaging containing residues of or contaminated by hazardous substances

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number	
ADR, IMDG, IATA	not regulated
14.2 UN proper shipping name	
ADR, IMDG, IATA	not regulated
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	not regulated
14.4 Packing group	
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user	Not applicable
14.7 Maritime transport in bulk according to IMO instruments	Not applicable
UN "Model Regulation":	not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008 Void
Hazard pictograms Void
Signal word Void

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Hazard statements Void
Directive 2004/42/EC There is no information available.

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
Seveso category Not subject to 2012/18/EU (SEVESO III)
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 75
Regulation (EU) No 649/2012
Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: not relevant

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

National regulations:

Information about limitation of use:
Germany:
Observe restrictions according to the Youth Employment Protection Act (JArbSchG)

Technical instructions (air):
Technical Instructions on Air Quality I (Germany):
5.2.5: Organic substances, to be indicated as total carbon at m $\geq$ 0.50 kg/h: Conc. 50 mg/m³.
Proportion: >99 %

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations
Directive 2010/75/EU on industrial emissions: No information available.
The national legal regulations must also be observed!
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
Classification according to Regulation (EC) No 1272/2008
Health hazards: Calculation method.
Environmental hazards: Calculation method.
Physical hazards: Based on test data

Department issuing SDS: product management
Date of previous version: 13.03.2023

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Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2