

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 11/02/2021 Revision date: 14/03/2023 Supersedes version of: 11/02/2021 Version: 2.0

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

1.1. Product identifier

Product form	: Mixture
Product name	: Nordlub Getriebeöl BW-HLDX Fluid UC
Product code	: 5096
Type of product	: NORDLUB
Product group	: Blend
Other means of identification	: ArtNr.: 31026

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

1.2.1. Relevant identified uses

 Main use category
 : Industrial use,Professional use,Consumer use

 Industrial/Professional use spec
 : Non-dispersive use

 Used in closed systems

 Function or use category
 : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NORDLUB Deutschland GmbH Lange Str. 49 D-21614 Buxtehude Deutschland / Germany T +49 (0)4161 / 55 905 - 0 - F +49 (0)4161 / 55 905 - 29 info@nordlub.de - www.nordlub.de

1.4. Emergency telephone number

Emergency number

: +49 (0)4161 / 55 905 - 0

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090	+356 2545 6508	
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic Hazard, Category 3

14/03/2023 (Revision date) 16/03/2023 (Printing date) H412

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Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Signal word (CLP)	: -
Hazard statements (CLP)	: H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P273 - Avoid release to the environment. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. P102 - Keep out of reach of children.
EUH-statements	: EUH208 - Contains 2-tetradecyloxirane, reaction products with boric acid. May produce an allergic reaction.
2.2. Other hererde	

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

: The mineral oils in the product contain < 3% DMSO extract (IP 346)

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635- 27	1 – 5	Eye Dam. 1, H318 Aquatic Chronic 2, H411
2-tetradecyloxirane, reaction products with boric acid	EC-No.: 701-392-2 REACH-no: 01-2119976364- 28	0.99	Skin Sens. 1B, H317
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	CAS-No.: 68411-46-1 EC-No.: 270-128-1 REACH-no: 01-2119491299- 23	0.49	Repr. 2, H361f Aquatic Chronic 3, H412
triphenyl phosphite	CAS-No.: 101-02-0 EC-No.: 202-908-4 EC Index-No.: 015-105-00-7 REACH-no: 01-2119511213- 58	0.249	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635- 27	(50 ≤C < 100) Eye Dam. 1, H318 (50 ≤C < 100) Eye Irrit. 2, H319
triphenyl phosphite	CAS-No.: 101-02-0 EC-No.: 202-908-4 EC Index-No.: 015-105-00-7 REACH-no: 01-2119511213- 58	(5 ≤C ≤ 100) Skin Irrit. 2, H315 (5 ≤C ≤ 100) Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Not expected to require first aid measures. Wash skin with mild soap and water. In case of eye contact, immediately rinse with clean water for 10-15 minutes. Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No additional information available

SECTION 5: Firefighting measure	S	
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Powder. Dry chemical product.Do not use a heavy water stream.	
5.2. Special hazards arising from the	substance or mixture	
No additional information available		
5.3. Advice for firefighters		
Precautionary measures fire	: Exercise caution when fighting any chemical fire.	

Firefighting instructions	Use water spray or fog for cooling exposed containers.	
Protection during firefighting	Do not enter fire area without proper protective equipment, including resp	piratory protection.

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SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	
Protective equipment	: Wear suitable protective clothing and gloves.
6.1.2. For emergency responders	
Protective equipment	: Wear suitable protective clothing and gloves.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.	

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up Other information	 Impound and recover large spill by mixing it with inert granular solids. Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr. Spill area may be slippery. Use suitable disposal containers. 	

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.
Handling temperature	: < 40 °C
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, includ	ling any incompatibilities
Storage temperature Storage area	 : ≤ 40 °C : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Additional information

: 5 mg/m3 for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Standard EN 166 - Personal eye-protection.

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: amber.
Appearance	: Oily liquid.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 150 °C (DIN EN ISO 2592)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: 90 mm²/s @ 40°C (DIN EN ISO 3104)
Solubility	: Slightly soluble, the product remains on the water surface.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: >3
Vapour pressure	: Not available

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Vapour pressure at 50°C	: Not available
Density	: 880 kg/m ³ @15°C (DIN EN ISO 12185)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong oxidizers. acids. Bases.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
	Not classified	
	Not classified	
Acute toxicity (inhalation) :	Not classified	
Zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophos	sphate) (4259-15-8)	
LD50 oral rat	3100 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)		
LD50 oral rat	> 5000 mg/kg OECD 401	
LD50 dermal rat	> 2000 mg/kg OECD 402	
Skin corrosion/irritation :	Not classified	
Serious eye damage/irritation :	Not classified	
Respiratory or skin sensitisation :	Not classified	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified	
Reproductive toxicity :	Not classified	

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STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Nordlub Getriebeöl BW-HLDX Fl	uid UC	
Viscosity, kinematic	90 mm²/s @ 40°C (DIN EN ISO 3104)	
11.2. Information on other hazard	ls	

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects. (chronic)		
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)		
1.4 mg/l Oncorhynchus mykiss OECD 203		
≥ 0 mg/l		
75 mg/l Daphnia Magna OECD 201		
240 mg/l Scenedesmus Subspicatus OECD 201 @21d		
220 mg/l Scenedesmus subspicatus OECD201 - biomass		
).4 mg/l Daphnia Magna OECD 211 @21d - results analog product		
ic acid		
> 100 mg/l Oncorhynchus mykiss		
> 100 mg/l Daphnia magna		
> 100 mg/l Selenastrum capricomutum		
10 mg/l Daphnia magna		
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)		
> 100 mg/l OECD 203, Danio rerio 96h		
51 mg/l OECD 202, Daphnia magna 48h		
> 100 mg/l OECD 201, Desmodesmus subspicatus, 72h		
triphenyl phosphite (101-02-0)		
).94 mg/l (Daphnia magna)		

12.2. Persistence and degradability

Nordlub Getriebeöl BW-HLDX Fluid UC		
Persistence and degradability Not soluble in water, so only minimally biodegradable.		
2-tetradecyloxirane, reaction products with boric acid		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	26.7 %	
Biodegradation	% (days)	

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Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)		
Biodegradation	1 % OECD 301B, 28d	
triphenyl phosphite (101-02-0)		
BOD (% of ThOD)	0.14 % ThOD	
12.3. Bioaccumulative potential		
Nordlub Getriebeöl BW-HLDX Fluid UC		
Partition coefficient n-octanol/water (Log Pow)	> 3	
Zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophos	phate) (4259-15-8)	
Partition coefficient n-octanol/water (Log Kow)	3.59	
2-tetradecyloxirane, reaction products with bo	pric acid	
Partition coefficient n-octanol/water (Log Kow)	9.4	
Benzenamine, N-phenyl-, reaction products w	ith 2,4,4-trimethylpentene (68411-46-1)	
Partition coefficient n-octanol/water (Log Pow)	> 6	
triphenyl phosphite (101-02-0)		
Partition coefficient n-octanol/water (Log Kow)	6.25 @25°C Calc.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
	Dispose in a safe manner in accordance with local/national regulations.	
SECTION 14: Transport information		
In accordance with ADR / IMDG / IATA / ADN / RID		

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number		
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable 	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: Not applicable	

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Proper Shipping Name (IMDG): Not applicableProper Shipping Name (IATA): Not applicableProper Shipping Name (ADN): Not applicableProper Shipping Name (RID): Not applicable	
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR) : Not applicable	
IMDG Transport hazard class(es) (IMDG) : Not applicable	
IATA Transport hazard class(es) (IATA) : Not applicable	
ADN Transport hazard class(es) (ADN) : Not applicable	
RID Transport hazard class(es) (RID) : Not applicable	
14.4. Packing group	
Packing group (ADR): Not applicablePacking group (IMDG): Not applicablePacking group (IATA): Not applicablePacking group (ADN): Not applicablePacking group (RID): Not applicable	
14.5. Environmental hazards	
Dangerous for the environment: NoMarine pollutant: NoOther information: No supplementary information available	
14.6. Special precautions for user	
Overland transport Not applicable	
Transport by sea Not applicable	
Air transport Not applicable	
Inland waterway transport Not applicable	
Rail transport Not applicable	
14.7. Maritime transport in bulk according to IMO instruments	
Not applicable	

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Employment restrictions	: Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
Storage class (LGK, TRGS 510)	: LGK 10-13 - Other combustible and non-combustible substances.
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene is listed
SZW-lijst van mutagene stoffen	: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen -	: None of the components are listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Added	
	Comments (on top of composition)	Added	

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Indication of changes			
Section	Changed item	Change	Comments
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
9.1	Log Pow	Added	
9.1	Viscosity, kinematic	Modified	
9.1	Odour	Modified	
9.1	Flash point	Modified	
9.1	Colour	Modified	
9.1	Density	Modified	
12.3	Log Pow	Added	
15.1	Storage class (LGK, TRGS 510)	Added	

Abbreviations and acronyms:		
	ACGIH: American Conference of Governmental Industrial Hygienists	
	TWA: Time Weighted Average	
	TLV: Threshold Limit Value	
	ASTM: American Society for Testing and Materials	
	ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route	
	RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail	
	ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin	
	IMDG: International Maritime Dangerous Goods	
	ICAO: International Civil Aviation Organization	
	IATA: International Air Transport Association	
	STEL: Short Term Exposure Limit	
	LD50: median Lethal Dose for 50% of subjects	
	ATE: acute toxicity estimate	
	LC50: median Lethal Concentration for 50% of subjects	
	EC50: concentration producing 50% effect	

Other information

: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
EUH208	Contains 2-tetradecyloxirane, reaction products with boric acid. May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.