

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Nordlub Hydrauliköl HVI 15  
Product code : 4403  
Type of product : NORDLUB  
Product group : Blend  
Other means of identification : Art. Nr: 15030

#### 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](mailto:info@nordlub.de) - [www.nordlub.de](http://www.nordlub.de)

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Aspiration hazard, Category 1 H304  
Full text of H 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]

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Danger  
Contains : Distillates (petroleum), hydrotreated heavy paraffinic ; Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0,03% aromatics  
Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways.

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Precautionary statements (CLP) : P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P331 - Do NOT induce vomiting.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

## 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]         |
|--|--|------------|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | (CAS-No.) 64742-54-7<br>(EC-No.) 265-157-1<br>(EC Index-No.) 649-467-00-8<br>(REACH-no) 01-2119484627-25 | 80 – 100   | Asp. Tox. 1, H304   |
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)   | (CAS-No.) 4259-15-8<br>(EC-No.) 224-235-5<br>(REACH-no) 01-2119493635-27                                 | 0.1 – 0.39 | Eye Dam. 1, H318<br>Aquatic Chronic 2, H411                             |
| 2,6-Di-tert-butylphenol                                | (CAS-No.) 128-39-2<br>(EC-No.) 204-884-0<br>(REACH-no) 01-2119490822-33                                  | 0.1 – 0.21 | Skin Irrit. 2, H315<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

### Specific concentration limits:

| Name   | Product identifier   | Specific concentration limits   |
|--|--|---------------------------------|
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | (CAS-No.) 4259-15-8<br>(EC-No.) 224-235-5<br>(REACH-no) 01-2119493635-27 | ( 50 ≤C < 100) Eye Dam. 1, H318 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Not expected to require first aid measures.  
First-aid measures after skin contact : Wash skin with mild soap and water.  
First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.  
First-aid measures after ingestion : 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.

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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 measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water fog. Foam. Powder. Dry chemical product.  
Unsuitable extinguishing media : 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 respiratory protection.

## 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 : Impound and recover large spill by mixing it with inert granular solids.  
Methods for cleaning up : Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.  
Other information : 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, including any incompatibilities

Storage temperature : ≤ 40 °C  
Storage area : Store in dry, cool, well-ventilated area.  
Special rules on packaging : Packaging destined for the general public must be fitted with child-proof closures and a tactile danger indication.

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### 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/m<sup>3</sup> 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

### 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

No additional information available

#### 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

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### SECTION 9: Physical and chemical properties

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

|   |   |
|---|---|
| Physical state                                  | : Liquid  |
| Appearance                                      | : Oily liquid.  |
| Colour  | : Yellow.   |
| Odour   | : Characteristic.   |
| Odour threshold                                 | : No data available   |
| pH  | : No data available   |
| Relative evaporation rate (butylacetate=1)      | : No data available   |
| Melting point                                   | : No data available   |
| Freezing point                                  | : No data available   |
| Boiling point                                   | : No data available   |
| Flash point                                     | : > 125 °C @ ASTM D92   |
| Auto-ignition temperature                       | : No data available   |
| Decomposition temperature                       | : No data available   |
| Flammability (solid, gas)                       | : No data available   |
| Vapour pressure                                 | : No data available   |
| Relative vapour density at 20 °C                | : No data available   |
| Relative density                                | : No data available   |
| Density   | : 846 kg/m <sup>3</sup> @ 15°C                                |
| Solubility                                      | : Slightly soluble, the product remains on the water surface. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available   |
| Viscosity, kinematic                            | : 15 mm <sup>2</sup> /s @ 40°C                                |
| Viscosity, dynamic                              | : No data available   |
| Explosive properties                            | : No data available   |
| Oxidising properties                            | : No data available   |
| Explosive limits                                | : No data available   |

#### 9.2. Other information

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 toxicological effects

Acute toxicity (oral) : Not classified

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Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b> |              |
|--|--------------|
| LD50 oral rat  | > 5000 mg/kg |
| LD50 dermal rabbit   | > 3000 mg/kg |

| <b>Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)</b> |              |
|---|--------------|
| LD50 oral rat   | 3100 mg/kg   |
| LD50 dermal rabbit  | > 5000 mg/kg |

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

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

| <b>Nordlub Hydrauliköl HVI 15</b> |                              |
|-----------------------------------|------------------------------|
| Viscosity, kinematic              | 15 mm <sup>2</sup> /s @ 40°C |

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

| <b>Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)</b> |   |
|---|---|
| LC50 - Fish [1]   | 4.4 mg/l Oncorhynchus mykiss OECD 203                         |
| LC50 - Fish [2]   | ≥ 0 mg/l  |
| EC50 - Crustacea [1]  | 75 mg/l Daphnia Magna OECD 201                                |
| EC50 96h - Algae [1]  | 240 mg/l Scenedesmus Subspicatus OECD 201 @21d                |
| NOEC (acute)  | 220 mg/l Scenedesmus subspicatus OECD201 - biomass            |
| NOEC (chronic)  | 0.4 mg/l Daphnia Magna OECD 211 @21d - results analog product |

### 12.2. Persistence and degradability

| <b>Nordlub Hydrauliköl HVI 15</b> |  |
|-----------------------------------|--|
| Persistence and degradability     | Not soluble in water, so only minimally biodegradable. |

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### 12.3. Bioaccumulative potential

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

|   |      |
|---|------|
| Partition coefficient n-octanol/water (Log Kow) | 3.59 |
|---|------|

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Additional information : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

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

### 14.1 UN number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

### 14.3. Transport hazard class(es)

|                                   |                  |
|-----------------------------------|------------------|
| <b>ADR</b>                        |                  |
| Transport hazard class(es) (ADR)  | : Not applicable |
| <b>IMDG</b>                       |                  |
| Transport hazard class(es) (IMDG) | : Not applicable |
| <b>IATA</b>                       |                  |
| Transport hazard class(es) (IATA) | : Not applicable |
| <b>ADN</b>                        |                  |
| Transport hazard class(es) (ADN)  | : Not applicable |
| <b>RID</b>                        |                  |
| Transport hazard class(es) (RID)  | : Not applicable |

### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |

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Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other 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. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 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)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : Distillates (petroleum), hydrotreated heavy paraffinic is listed

SZW-lijst van mutagene stoffen : Distillates (petroleum), hydrotreated heavy paraffinic is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

##### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

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



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### SECTION 16: Other information

| Indication of changes: |  |          |          |
|------------------------|--|----------|----------|
| Section                | Changed item                           | Change   | Comments |
|                        | Supersedes                             | Modified |          |
|                        | Revision date                          | Modified |          |
|                        | Comments (on top of composition)       | Added    |          |
| 2.2                    | Precautionary statements (CLP)         | Modified |          |
| 3                      | Composition/information on ingredients | Modified |          |

| 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.

| 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 |
| Asp. Tox. 1                         | Aspiration hazard, Category 1                                     |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                     |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                             |

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|      |   |
|------|---|
| H304 | May be fatal if swallowed and enters airways.         |
| H315 | Causes skin irritation.                               |
| H318 | Causes serious eye damage.                            |
| 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.      |

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.