



# Perlus XVI 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 17-5-2018 Revision date: 18-6-2024 Supersedes version of: 28-9-2022 Version: 1.3

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Perlus XVI 32  
Product code : 08.10.22  
Type of product : Lubricants  
Product group : Trade product

#### 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  
Use of the substance/mixture : Hydraulic oil

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Kroon-Oil B.V.  
Dollegoorweg 15  
NL 7602 EC Almelo  
Netherlands  
T 0031 (0)546 81 81 65  
[vib@kroon-oil.nl](mailto:vib@kroon-oil.nl)

#### 1.4. Emergency telephone number

| Country/Area   | Organisation/Company  | Address                           | Emergency number   | Comment                              |
|----------------|---|-----------------------------------|--|--------------------------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                                  | PO Box 1297<br>Beaumont Road<br>9 | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                      |
| United Kingdom | National Poisons Information Service<br>(Cardiff Centre)<br>University Hospital Llandough | Penlan Road<br>CF64 2XX           | 0344 892 0111  | Only for healthcare<br>professionals |

### SECTION 2: Hazards identification

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

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

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

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

EUH-statements : EUH208 - Contains Dibutyl [(dipropoxyphosphinothioyl)thio]succinate, Dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction.  
EUH210 - Safety data sheet available on request.

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### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

| Component   |  |
|---|--|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |

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 substance(s) are 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 : Highly refined mineral oils and additives.

| Name  | Product identifier   | %         | Classification according to Regulation (EC) No. 1272/2008 [CLP]      |
|---|--|-----------|--|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (Note L) | CAS-No.: 72623-86-0<br>EC-No.: 276-737-9<br>EC Index-No.: 649-482-00-X<br>REACH-no: 01-2119474878-16 | $\geq 80$ | Asp. Tox. 1, H304  |
| Distillates (petroleum), hydrotreated light paraffinic (Note L)               | CAS-No.: 64742-55-8<br>EC-No.: 265-158-7<br>EC Index-No.: 649-468-00-3<br>REACH-no: 01-2119487077-29 | 5 – 10    | Asp. Tox. 1, H304  |
| Dibutyl [(dipropoxyphosphinothioyl)thio]succinate                             | CAS-No.: 68413-47-8<br>EC-No.: 270-219-6<br>REACH-no: 01-2120772316-52                               | 0,1 – 0,3 | Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411                       |
| Dihydro-3-(tetrapropenyl)furan-2,5-dione                                      | CAS-No.: 26544-38-7<br>EC-No.: 247-781-6<br>REACH-no: 01-2119979080-37                               | < 0,1     | Eye Irrit. 2, H319<br>Skin Sens. 1A, H317<br>Aquatic Chronic 4, H413 |

### Specific concentration limits:

| Name                                     | Product identifier   | Specific concentration limits (%)        |
|--|--|--|
| Dihydro-3-(tetrapropenyl)furan-2,5-dione | CAS-No.: 26544-38-7<br>EC-No.: 247-781-6<br>REACH-no: 01-2119979080-37 | (0,1 $\leq$ C < 100) Skin Sens. 1A, H317 |

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Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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 general            | : If you feel unwell, seek medical advice.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                        |
| First-aid measures after skin contact | : Repeated exposure may cause skin dryness or cracking. Wash skin with plenty of water. |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.  |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                                  |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects                    | : No additional information available.  |
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions.   |
| Symptoms/effects after eye contact  | : None under normal conditions.   |
| Symptoms/effects after ingestion    | : None under normal conditions.   |

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Special hazards arising from the substance or mixture

|  |   |
|--|---|
| Fire hazard                                      | : Combustible liquid.   |
| Explosion hazard                                 | : No direct explosion hazard.   |
| Hazardous decomposition products in case of fire | : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. |

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |  |
|------------------|--|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.<br>Absorb spillage to prevent material damage. |
|------------------|--|

##### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area.                        |

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### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour.
- 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

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat.
- Storage temperature : 0 – 40 °C
- Packaging materials : Store always product in container of same material as original container.

### 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

| Perlus XVI 32   |   |
|---|---|
| EU - Indicative Occupational Exposure Limit (IOEL)  |   |
| Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended | 5 mg/m <sup>3</sup> - ACGIH TLV (inhalable fraction). |

#### 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

No additional information available

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### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

| Eye protection |                      |                 |          |
|----------------|----------------------|-----------------|----------|
| Type           | Field of application | Characteristics | Standard |
| Safety glasses | Droplet              | clear           | EN 166   |

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

| Hand protection |                      |                   |                |             |            |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Type            | Material             | Permeation        | Thickness (mm) | Penetration | Standard   |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | ≥0.35          |             | EN ISO 374 |

##### Other skin protection

##### Materials for protective clothing:

Wear suitable protective clothing

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

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### SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Physical state                                  | : Liquid   |
| Colour  | : light yellow.                                    |
| Odour   | : characteristic.                                  |
| Odour threshold                                 | : Not available                                    |
| Melting point                                   | : Not applicable                                   |
| Freezing point                                  | : -51 °C - ASTM D5950 (pour point)                 |
| Boiling point                                   | : Not available                                    |
| Flammability                                    | : Not applicable                                   |
| Explosive properties                            | : Presents no particular fire or explosion hazard. |
| Lower explosion limit                           | : Not available                                    |
| Upper explosion limit                           | : Not available                                    |
| Flash point                                     | : 162 °C - ASTM D92 (COC)                          |
| Auto-ignition temperature                       | : Not available                                    |
| Decomposition temperature                       | : Not available                                    |
| pH  | : Not available                                    |
| Viscosity, kinematic                            | : 34,2 mm <sup>2</sup> /s (40 °C) - ASTM D7042     |
| Solubility                                      | : Water: Insoluble / Slightly miscible             |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                    |
| Vapour pressure                                 | : Not available                                    |
| Vapour pressure at 50°C                         | : Not available                                    |
| Density   | : 0,843 kg/l (15 °C) - ASTM D4052                  |
| 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

VOC content : 0 %

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Reacts violently with (strong) oxidizers.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No decomposition if stored normally.

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### SECTION 11: Toxicological information

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

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

| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |              |
|---|--------------|
| LD50 oral rat   | > 5000 mg/kg |
| LD50 dermal rabbit  | > 2000 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist)                                   | 5,53 mg/l/4h |

| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |                                |
|---|--------------------------------|
| LD50 oral rat   | > 5000 mg/kg (OECD 401 method) |
| LD50 dermal rabbit  | > 2000 mg/kg (OECD 402 method) |
| LC50 Inhalation - Rat   | > 5,53 mg/l (OECD 403 method)  |

| Dibutyl [(dipropoxyphosphinothioyl)thio]succinate (68413-47-8) |   |
|--|---|
| LD50 oral rat  | > 2500 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) |

Skin corrosion/irritation : Not classified  
Additional information : Repeated exposure may cause skin dryness or cracking.  
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

| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |   |
|---|---|
| LOAEL (oral, rat, 90 days)  | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Aspiration hazard : Not classified

| Perlus XVI 32        |  |
|----------------------|--|
| Viscosity, kinematic | 34,2 mm <sup>2</sup> /s (40 °C) - ASTM D7042 |

| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |                           |
|---|---------------------------|
| Viscosity, kinematic  | < 20,5 mm <sup>2</sup> /s |
| Aliphatic, alicyclic or aromatic hydrocarbon                        | Yes                       |

| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |  |
|---|--|
| Viscosity, kinematic  | < 20,5 mm <sup>2</sup> /s (40 °C) - ASTM D7042 |
| Aliphatic, alicyclic or aromatic hydrocarbon                                      | Yes  |

| Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7) |                          |
|---|--------------------------|
| Viscosity, kinematic                                  | 0,428 mm <sup>2</sup> /s |

#### 11.2. Information on other hazards

No additional information available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Ecology - water   | : May cause long lasting harmful effects to aquatic life.   |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified  |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified  |

| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |                |
|---|----------------|
| LC50 - Fish [1]   | > 100 mg/l 96h |
| EC50 - Crustacea [1]  | > 10000 mg/l   |
| EC50 72h - Algae [1]  | ≥ 100 mg/l     |
| NOEC chronic crustacea  | 10 mg/l 21d    |

| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |  |
|---|--|
| LC50 - Fish [1]   | > 100 mg/l   |
| EC50 - Crustacea [1]  | > 10000 mg/l   |
| NOEC (acute)  | ≥ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 211 method) |
| NOEC chronic fish   | > 1000 mg/l  |
| NOEC chronic crustacea  | > 10 mg/l (Daphnia magna, 21d) (OECD 211 method)                   |
| NOEC chronic algae  | ≥ 100 mg/l   |

| Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7) |  |
|---|--|
| LC50 - Fish [1]                                       | > 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)  |
| EC50 96h - Algae [1]                                  | 110 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

#### 12.2. Persistence and degradability

| Perlus XVI 32                 |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |

| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |                         |
|---|-------------------------|
| Persistence and degradability                                       | Not established.        |
| Biodegradation  | 31 % (OECD 301F method) |

| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |                               |
|---|-------------------------------|
| Persistence and degradability   | Not readily biodegradable.    |
| Biodegradation  | 31 % (28d) (OECD 301F method) |

| Dibutyl [(dipropoxyphosphinothioyl)thio]succinate (68413-47-8) |                        |
|--|------------------------|
| Persistence and degradability                                  | Not rapidly degradable |

| Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7) |                    |
|---|--------------------|
| Persistence and degradability                         | Rapidly degradable |



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### 12.3. Bioaccumulative potential

#### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

|   |                  |
|---|------------------|
| Partition coefficient n-octanol/water (Log Pow) | > 6              |
| Bioaccumulative potential                       | Not established. |

#### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

|   |                            |
|---|----------------------------|
| Partition coefficient n-octanol/water (Log Kow) | > 6                        |
| Bioaccumulative potential                       | Bioaccumulative potential. |

### 12.4. Mobility in soil

#### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

|                |                     |
|----------------|---------------------|
| Ecology - soil | Insoluble in water. |
|----------------|---------------------|

### 12.5. Results of PBT and vPvB assessment

| Component   |  |
|---|--|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |

### 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

|  |  |
|--|--|
| Regional waste regulation                  | : Disposal must be done according to official regulations.   |
| Waste treatment methods                    | : Do not allow into drains or water courses. Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.   |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations.  |
| Additional information                     | : Do not re-use empty containers.  |
| European List of Waste (LoW, EC 2000/532)  | : 13 01 10* - mineral based non-chlorinated hydraulic oils   |

## SECTION 14: Transport information

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

| ADR                                  | IMDG           | IATA           | ADN            | RID            |
|--------------------------------------|----------------|----------------|----------------|----------------|
| <b>14.1. UN number or ID number</b>  |                |                |                |                |
| Not applicable                       | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b> |                |                |                |                |
| Not applicable                       | Not applicable | Not applicable | Not applicable | Not applicable |

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| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|---|----------------|----------------|----------------|----------------|
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| 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

## 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)

| EU restriction list (REACH Annex XVII) |  |   |
|--|--|---|
| Reference code                         | Applicable on  | Entry title or description  |
| 3(b)                                   | Distillates (petroleum), hydrotreated light paraffinic ; Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based ; Dibutyl [(dipropoxyphosphinothioyl)thio]succinate ; Dihydro-3-(tetrapropenyl)furan-2,5-dione | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c)                                   | Dibutyl [(dipropoxyphosphinothioyl)thio]succinate ; Dihydro-3-(tetrapropenyl)furan-2,5-dione   | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1   |

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### 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)

### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

### VOC Directive (2004/42)

VOC content : 0 %

### 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

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Indication of changes |  |          |          |
|-----------------------|--|----------|----------|
| Section               | Changed item                                     | Change   | Comments |
|                       | Revision date                                    | Modified |          |
|                       | Supersedes                                       | Modified |          |
|                       | Type of product                                  | Added    |          |
| 1.2                   | Function or use category                         | Removed  |          |
| 4.1                   | First-aid measures general                       | Added    |          |
| 4.2                   | Symptoms/effects after skin contact              | Added    |          |
| 4.2                   | Symptoms/effects after inhalation                | Added    |          |
| 4.2                   | Symptoms/effects after ingestion                 | Added    |          |
| 4.2                   | Symptoms/effects after eye contact               | Added    |          |
| 5.2                   | Explosion hazard                                 | Added    |          |
| 5.2                   | Hazardous decomposition products in case of fire | Modified |          |
| 5.3                   | Firefighting instructions                        | Added    |          |
| 6.1                   | Protective equipment                             | Added    |          |

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## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Indication of changes |                                    |          |          |
|-----------------------|------------------------------------|----------|----------|
| Section               | Changed item                       | Change   | Comments |
| 6.1                   | Emergency procedures               | Added    |          |
| 6.1                   | General measures                   | Added    |          |
| 6.3                   | For containment                    | Added    |          |
| 7.1                   | Additional hazards when processed  | Added    |          |
| 7.2                   | Packaging materials                | Added    |          |
| 7.2                   | Technical measures                 | Added    |          |
| 8.2                   | Personal protective equipment      | Added    |          |
| 10.3                  | Possibility of hazardous reactions | Modified |          |
| 13.1                  | Additional information             | Added    |          |
| 13.1                  | Sewage disposal recommendations    | Added    |          |
| 13.1                  | Regional waste regulation          | Added    |          |
| 13.1                  | H code                             | Added    |          |

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |
| BLV                         | Biological limit value  |
| BOD                         | Biochemical oxygen demand (BOD)   |
| COD                         | Chemical oxygen demand (COD)  |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| EC-No.                      | European Community number   |
| EC50                        | Median effective concentration  |
| EN                          | European Standard   |
| IARC                        | International Agency for Research on Cancer   |
| IATA                        | International Air Transport Association   |
| IMDG                        | International Maritime Dangerous Goods  |
| LC50                        | Median lethal concentration   |
| LD50                        | Median lethal dose  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |
| NOAEL                       | No-Observed Adverse Effect Level  |
| NOEC                        | No-Observed Effect Concentration  |
| OECD                        | Organisation for Economic Co-operation and Development  |
| OEL                         | Occupational Exposure Limit   |
| PBT                         | Persistent Bioaccumulative Toxic  |

# Perlus XVI 32

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties  |

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2   |
| Aquatic Chronic 4                   | Hazardous to the aquatic environment – Chronic Hazard, Category 4   |
| Asp. Tox. 1                         | Aspiration hazard, Category 1   |
| EUH208                              | Contains Dibutyl [(dipropoxyphosphinothioyl)thio]succinate, Dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction. |
| EUH210                              | Safety data sheet available on request.   |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2   |
| H304                                | May be fatal if swallowed and enters airways.   |
| H317                                | May cause an allergic skin reaction.  |
| H319                                | Causes serious eye irritation.  |
| H411                                | Toxic to aquatic life with long lasting effects.  |
| H413                                | May cause long lasting harmful effects to aquatic life.   |
| Skin Sens. 1A                       | Skin sensitisation, category 1A   |
| 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.