

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



## CENTOPLEX 2 EP

|         |                |                                 |             |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 18.06.2019  | Print Date: |
| 5.2     | 07.07.2020     | Date of first issue: 11.06.2015 | 07.07.2020  |

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

#### 1.1 Product identifier

Product name : CENTOPLEX 2 EP

Article-No. : 020071

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

Use of the Sub-  
stance/Mixture : Grease

Recommended restrictions  
on use : Restricted to professional users.

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

Company : Klüber Lubrication München  
Geisenhausenerstr. 7  
81379 München  
Deutschland  
Tel: +49 (0) 89 7876 0  
Fax: +49 (0) 89 7876 333  
info@klueber.com

E-mail address of person  
responsible for the SDS : mcm@klueber.com  
Material Compliance Management

National contact : Klüber Lubrication Deutschland  
Geisenhausenerstraße 7  
81379 München  
Deutschland  
Tel.: +49 89 7876 0  
Fax: +49 89 7876 565  
customer.service.de@klueber.com  
www.klueber.com

#### 1.4 Emergency telephone number

Emergency telephone num-  
ber : +49 89 7876 700 (24 hrs)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

Long-term (chronic) aquatic hazard, Cat- H412: Harmful to aquatic life with long lasting ef-

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Category 3

Effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.

**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

#### Additional Labelling

EUH208 Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Mineral oil.  
lithium soap

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No. | Classification | Concentration<br>limits<br>M-Factor<br>Notes | Concentration<br>(% w/w) |
|---------------|--------------------------------|----------------|--|--------------------------|
|               |                                |                |  |                          |

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|   | Registration number  |   |                                    |              |
|---|--|---|------------------------------------|--------------|
| zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)                          | 4259-15-8<br>224-235-5<br><br>01-2119493635-27-XXXX                  | Eye Dam.1; H318<br>Aquatic Chronic2; H411 | > 50 %<br>Eye Dam.1, H318          | >= 3 - < 10  |
| Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts                  | 939-603-7<br><br>01-2119978241-36-XXXX                               | Skin Sens.1B; H317                        | > 10 - 100 %<br>Skin Sens.1B, H317 | >= 0,1 - < 1 |
| Substances with a workplace exposure limit :                                  |  |   |                                    |              |
| distillates (petroleum), hydrotreated heavy paraffinic                        | 64742-54-7<br>265-157-1<br><br>649-467-00-8<br>01-2119484627-25-XXXX | Not classified                            | Note L                             | >= 30 - < 50 |
| residual oils (petroleum), hydrotreated                                       | 64742-57-0<br>265-160-8<br><br>649-470-00-4<br>01-2119489287-22-XXXX | Not classified                            | Note L                             | >= 20 - < 30 |
| Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified | 64742-52-5<br>265-155-0<br><br>649-465-00-7<br>01-2119467170-45-XXXX | Not classified                            | Note L                             | >= 20 - < 30 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.

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Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.

- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
Seek medical advice.
- If swallowed : Move the victim to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.

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

- Symptoms : No information available.
- Risks : None known.

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

- Treatment : No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during fire-fighting : Fire may cause evolution of:  
Carbon oxides  
Metal oxides  
Oxides of phosphorus  
Sulphur oxides

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### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Do not breathe vapours, aerosols. Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing. Do not ingest. Do not repack.

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These safety instructions also apply to empty packaging which may still contain product residues.  
Keep container closed when not in use.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

Storage class (TRGS 510) : 11, Combustible Solids

### 7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components  | CAS-No.   | Value type (Form of exposure) | Control parameters  | Basis                    |
|---|---|-------------------------------|---------------------|--------------------------|
| distillates (petroleum), hydrotreated heavy paraffinic                        | 64742-54-7  | AGW (Vapour and aerosols)     | 5 mg/m <sup>3</sup> | DE TRGS 900 (2018-06-07) |
| Peak-limit: excursion factor (category)                                       | 4;(II)  |                               |                     |                          |
| Further information   | When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                               |                     |                          |
| residual oils (petroleum), hydrotreated                                       | 64742-57-0  | AGW (Vapour and aerosols)     | 5 mg/m <sup>3</sup> | DE TRGS 900 (2018-06-07) |
| Peak-limit: excursion factor (category)                                       | 4;(II)  |                               |                     |                          |
| Further information   | When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                               |                     |                          |
| Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified | 64742-52-5  | AGW (Vapour and aerosols)     | 5 mg/m <sup>3</sup> | DE TRGS 900 (2018-06-07) |
| Peak-limit: excursion factor (category)                                       | 4;(II)  |                               |                     |                          |

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|                        |   |
|------------------------|---|
| sion factor (category) |   |
| Further information    | When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name   | End Use              | Exposure routes | Potential health effects   | Value       |
|--|----------------------|-----------------|----------------------------|-------------|
| distillates (petroleum), hydrotreated heavy paraffinic       | Workers              | Inhalation      | Long-term local effects    | 5,6 mg/m3   |
| residual oils (petroleum), hydrotreated                      | Workers              | Inhalation      | Long-term systemic effects | 2,7 mg/m3   |
|  | Workers              | Inhalation      | Acute systemic effects     | 5,6 mg/m3   |
|  | Workers              | Skin contact    | Long-term systemic effects | 1 mg/kg     |
| zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)         | Workers              | Inhalation      | Long-term systemic effects | 6,6 mg/m3   |
|  | Workers              | Skin contact    | Long-term systemic effects | 9,6 mg/m3   |
| Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts | Workers              | Inhalation      | Long-term systemic effects | 35,26 mg/m3 |
|  | Workers              | Inhalation      | Long-term local effects    |             |
| Remarks:   | No hazard identified |                 |                            |             |
|  | Workers              | Inhalation      | Acute systemic effects     |             |
| Remarks:   | No hazard identified |                 |                            |             |
|  | Workers              | Inhalation      | Acute local effects        |             |
| Remarks:   | No hazard identified |                 |                            |             |
|  | Workers              | Dermal          | Long-term systemic effects | 25 mg/kg    |
|  | Workers              | Dermal          | Long-term local effects    |             |
| Remarks:   | No hazard identified |                 |                            |             |
|  | Workers              | Dermal          | Acute systemic effects     |             |
| Remarks:   | No hazard identified |                 |                            |             |
|  | Workers              | Dermal          | Acute local effects        |             |
| Remarks:   | No hazard identified |                 |                            |             |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name   | Environmental Compartment | Value       |
|--|---------------------------|-------------|
| distillates (petroleum), hydrotreated heavy paraffinic | Oral                      | 9,33 mg/kg  |
| zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)   | Fresh water               | 0,004 mg/l  |
|  | Marine water              | 0,0046 mg/l |
|  | Sewage treatment plant    | 3,8 mg/l    |

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|  |  |             |
|--|--|-------------|
|  | Fresh water sediment                                 | 0,322 mg/l  |
|  | Marine sediment                                      | 0,032 mg/l  |
|  | Soil   | 0,062 mg/l  |
| Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts | Fresh water  | 0,1 mg/l    |
|  | Marine water   | 0,1 mg/l    |
|  | Fresh water sediment                                 | 45211 mg/kg |
|  | Marine sediment                                      | 45211 mg/kg |
|  | Microbiological Activity in Sewage Treatment Systems | 1000 mg/l   |
|  | Air  |             |
| Remarks:   | No data available                                    |             |
|  | Soil   | 36739 mg/kg |

### 8.2 Exposure controls

#### Engineering measures

none

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber  
Break through time : > 10 min  
Protective index : Class 1

Remarks : Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.  
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type P

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties



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|  |                                     |
|--|-------------------------------------|
| Appearance                                       | : paste                             |
| Colour   | : brown                             |
| Odour  | : characteristic                    |
| Odour Threshold                                  | : No data available                 |
| pH   | : No data available                 |
| Melting point/range                              | : No data available                 |
| Boiling point/boiling range                      | : No data available                 |
| Flash point                                      | : Not applicable                    |
| Evaporation rate                                 | : No data available                 |
| Flammability (solid, gas)                        | : Combustible Solids                |
| Upper explosion limit / Upper flammability limit | : No data available                 |
| Lower explosion limit / Lower flammability limit | : No data available                 |
| Vapour pressure                                  | : < 0,001 hPa (20 °C)               |
| Relative vapour density                          | : No data available                 |
| Density  | : 0,90 g/cm <sup>3</sup><br>(20 °C) |
| Bulk density                                     | : No data available                 |
| Solubility(ies)                                  |                                     |
| Water solubility                                 | : insoluble                         |
| Solubility in other solvents                     | : No data available                 |
| Partition coefficient: n-octanol/water           | : No data available                 |
| Auto-ignition temperature                        | : No data available                 |
| Decomposition temperature                        | : No data available                 |
| Viscosity  |                                     |
| Viscosity, dynamic                               | : No data available                 |
| Viscosity, kinematic                             | : No data available                 |

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Explosive properties : Not explosive

Oxidizing properties : No data available

### 9.2 Other information

Sublimation point : No data available

Self-ignition : No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

### 10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Product:

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

#### Components:

#### **zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):**

Acute oral toxicity : LD50 (Rat, male): 3.100 mg/kg

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Method: OECD Test Guideline 401  
GLP: no

Acute dermal toxicity : LD50 (Rabbit, male): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1,9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **distillates (petroleum), hydrotreated heavy paraffinic:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402

### **residual oils (petroleum), hydrotreated:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 402

### **Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

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Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### Skin corrosion/irritation

#### Product:

Remarks : This information is not available.

#### Components:

##### **zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

##### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation

##### **distillates (petroleum), hydrotreated heavy paraffinic:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

##### **residual oils (petroleum), hydrotreated:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation

##### **Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation

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### Serious eye damage/eye irritation

#### Product:

Remarks : Irritating to eyes.

#### Components:

##### zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

|            |                                   |
|------------|-----------------------------------|
| Species    | : Rabbit                          |
| Assessment | : Risk of serious damage to eyes. |
| Method     | : OECD Test Guideline 405         |
| Result     | : Risk of serious damage to eyes. |
| GLP        | : yes                             |

##### Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

|            |                           |
|------------|---------------------------|
| Assessment | : No eye irritation       |
| Method     | : OECD Test Guideline 405 |
| Result     | : No skin irritation      |

##### distillates (petroleum), hydrotreated heavy paraffinic:

|            |                           |
|------------|---------------------------|
| Species    | : Rabbit                  |
| Assessment | : No eye irritation       |
| Method     | : OECD Test Guideline 405 |
| Result     | : No eye irritation       |
| GLP        | : yes                     |

##### residual oils (petroleum), hydrotreated:

|            |                           |
|------------|---------------------------|
| Species    | : Rabbit                  |
| Assessment | : No eye irritation       |
| Method     | : OECD Test Guideline 405 |
| Result     | : No eye irritation       |

##### Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

|            |                           |
|------------|---------------------------|
| Species    | : Rabbit                  |
| Assessment | : No eye irritation       |
| Method     | : OECD Test Guideline 405 |
| Result     | : No eye irritation       |
| GLP        | : yes                     |

### Respiratory or skin sensitisation

#### Product:

Remarks : This information is not available.

#### Components:

##### zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

|           |                     |
|-----------|---------------------|
| Test Type | : Maximisation Test |
|-----------|---------------------|

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|            |   |  |
|------------|---|--|
| Species    | : | Guinea pig   |
| Assessment | : | Did not cause sensitisation on laboratory animals. |
| Method     | : | OECD Test Guideline 406                            |
| Result     | : | Did not cause sensitisation on laboratory animals. |
| GLP        | : | yes  |

### Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

|            |   |  |
|------------|---|--|
| Assessment | : | Probability or evidence of low to moderate skin sensitisation rate in humans |
| Result     | : | Probability or evidence of low to moderate skin sensitisation rate in humans |

### distillates (petroleum), hydrotreated heavy paraffinic:

|            |   |                                    |
|------------|---|------------------------------------|
| Species    | : | Guinea pig                         |
| Assessment | : | Does not cause skin sensitisation. |
| Method     | : | OECD Test Guideline 406            |
| Result     | : | Does not cause skin sensitisation. |
| GLP        | : | yes                                |

### residual oils (petroleum), hydrotreated:

|            |   |   |
|------------|---|---|
| Species    | : | Guinea pig                                |
| Assessment | : | Does not cause skin sensitisation.        |
| Method     | : | OECD Test Guideline 406                   |
| Result     | : | Does not cause skin sensitisation.        |
| Assessment | : | Does not cause respiratory sensitisation. |
| Result     | : | Does not cause respiratory sensitisation. |

### Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

|            |   |                                    |
|------------|---|------------------------------------|
| Species    | : | Guinea pig                         |
| Assessment | : | Does not cause skin sensitisation. |
| Method     | : | OECD Test Guideline 406            |
| Result     | : | Does not cause skin sensitisation. |

### Germ cell mutagenicity

#### Product:

|                       |   |                            |
|-----------------------|---|----------------------------|
| Genotoxicity in vitro | : | Remarks: No data available |
| Genotoxicity in vivo  | : | Remarks: No data available |

#### Components:

### Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

|                       |   |  |
|-----------------------|---|--|
| Genotoxicity in vitro | : | Test Type: Microbial mutagenesis assay (Ames test)<br>Test system: Salmonella typhimurium<br>Metabolic activation: with and without metabolic activation |
|-----------------------|---|--|

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Method: OECD Test Guideline 471

Result: negative

### **Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### **Carcinogenicity**

#### **Product:**

Remarks : No data available

#### **Components:**

##### **distillates (petroleum), hydrotreated heavy paraffinic:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

##### **residual oils (petroleum), hydrotreated:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

##### **Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

#### **Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

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### Components:

#### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Reproductive toxicity - Assessment : No toxicity to reproduction  
No toxicity to reproduction

#### **distillates (petroleum), hydrotreated heavy paraffinic:**

Reproductive toxicity - Assessment : No toxicity to reproduction

#### **Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:**

Effects on foetal development : Species: Rat  
Application Route: Dermal  
General Toxicity Maternal: LOAEL: 125 mg/kg body weight  
Teratogenicity: NOAEL:  $\geq 2.000$  mg/kg body weight  
Developmental Toxicity: NOAEL:  $\geq 2.000$  mg/kg body weight  
Embryo-foetal toxicity: NOAEL:  $\geq 2.000$  mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No effects on fertility and early embryonic development were detected.

Reproductive toxicity - Assessment : No toxicity to reproduction  
No toxicity to reproduction

### **STOT - single exposure**

#### Components:

#### **Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### **STOT - repeated exposure**

#### Components:

#### **Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Repeated dose toxicity**

#### Product:

Remarks : This information is not available.

### **Aspiration toxicity**

#### Product:

This information is not available.



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### Components:

#### **zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):**

No aspiration toxicity classification

#### **distillates (petroleum), hydrotreated heavy paraffinic:**

No aspiration toxicity classification

#### **residual oils (petroleum), hydrotreated:**

No aspiration toxicity classification

#### **Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:**

No aspiration toxicity classification

### **Further information**

#### Product:

Remarks : Information given is based on data on the components and the toxicology of similar products.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

### Components:

#### **zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,4 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 75 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 240 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (Pseudomonas putida): 380 mg/l  
Exposure time: 16 h  
Test Type: static test  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,8 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOELR (Desmodesmus subspicatus (green algae)): 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### **distillates (petroleum), hydrotreated heavy paraffinic:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test

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Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

### residual oils (petroleum), hydrotreated:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Test Type: Immobilization

### Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : LC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR: >= 1.000 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Remarks: The value is calculated

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: Reproduction Test

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Method: OECD Test Guideline 211

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### Components:

##### **zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):**

Biodegradability : Result: Not rapidly biodegradable  
Biodegradation: < 5 %  
Exposure time: 27 d  
Method: OECD Test Guideline 301D  
GLP: no

##### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

##### **distillates (petroleum), hydrotreated heavy paraffinic:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 3 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

##### **residual oils (petroleum), hydrotreated:**

Biodegradability : Result: Not rapidly biodegradable

##### **Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 3 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

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### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

#### Components:

##### **zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):**

Partition coefficient: n-octanol/water : log Pow: 3,59 (22 °C)  
pH: 5  
Method: OECD Test Guideline 107  
GLP: yes

##### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Bioaccumulation : Bioconcentration factor (BCF): 70,8

Partition coefficient: n-octanol/water : log Pow: 26,22 (20 °C)

##### **distillates (petroleum), hydrotreated heavy paraffinic:**

Partition coefficient: n-octanol/water : log Pow: > 2

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

#### Components:

##### **zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):**

Assessment : Non-classified PBT substance. Non-classified vPvB substance.

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### **distillates (petroleum), hydrotreated heavy paraffinic:**

Assessment : Non-classified vPvB substance. Non-classified PBT substance.

### **Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:**

Assessment : Non-classified PBT substance. Non-classified vPvB substance.

## 12.6 Other adverse effects

### **Product:**

Additional ecological information : Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

Waste Code : used product, unused product  
12 01 12\*, spent waxes and fats

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

## SECTION 14: Transport information

### 14.1 UN number

ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good

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IATA : Not regulated as a dangerous good

### 14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

### 14.4 Packing group

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

### 14.5 Environmental hazards

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable

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tants (recast)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

34  
Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Water contaminating class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:  
others: 8,73 %

Inorganic substances in powdered form:  
Not applicable  
Inorganic substances in vapour or gaseous form:  
Not applicable  
Organic Substances:  
portion Class 1: 0,08 %  
others: 91,2 %

Carcinogenic substances:  
Not applicable  
Mutagenic:  
Not applicable  
Toxic to reproduction:  
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not applicable



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### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of H-Statements

|      |   |  |
|------|---|--|
| H317 | : | May cause an allergic skin reaction.             |
| H318 | : | Causes serious eye damage.                       |
| H411 | : | Toxic to aquatic life with long lasting effects. |

### Full text of other abbreviations

|                   |   |   |
|-------------------|---|---|
| Note L            | : | The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO 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. This note applies only to certain complex oil-derived substances in Part 3. |
| DE TRGS 900       | : | Germany. TRGS 900 - Occupational exposure limit values.   |
| DE TRGS 900 / AGW | : | Time Weighted Average   |

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No

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1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Eye Irrit. 2      | H319 |
| Aquatic Chronic 3 | H412 |

#### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |

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