

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878 - ES



## OKS 490

|         |                |                                 |             |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 10.07.2024  | Print Date: |
| 3.3     | 05.12.2025     | Date of first issue: 08.06.2016 | 05.12.2025  |

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

### 1.1 Product identifier

Product name : OKS 490

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

Use of the Substance/Mixture : Grease

Recommended restrictions on use : Restricted to professional users.

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

Company : OKS Spezialschmierstoffe GmbH  
Ganghoferstr. 47  
82216 Maisach-Gernlinden  
Deutschland  
Tel.: +49 8142 3051 500  
Fax: +49 8142 3051 599  
info@oks-germany.com

E-mail address of person responsible for the SDS : mcm@oks-germany.com

National contact :

### 1.4 Emergency telephone number

Emergency telephone number : +34 91 562 04 20

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Not a hazardous substance or mixture.

### 2.2 Label elements

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

Not a hazardous substance or mixture.

#### Additional Labelling

EUH210 Safety data sheet available on request.

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EUH208 Contains dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate. 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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Mineral oil.  
aluminium soap  
graphite

#### Components

| Chemical name                                                          | CAS-No.<br>EC-No.<br><br>Index-No.<br>Registration number | Classification                                       | specific<br>concentration<br>limit<br>M-Factor<br>Notes<br>Acute toxicity<br>estimate | Concentration<br>(% w/w) |
|------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------|
| Fatty acids, C16-18<br>and C18-unsatd., Me<br>esters, sulfurized       | 68390-93-2<br>269-913-1                                   | Aquatic Chronic 3;<br>H412                           |                                                                                       | >= 2,5 - < 10            |
| dibutyl [[bis[(2-<br>ethylhexyl)oxy]phosph<br>inothioyl]thio]succinate | 68413-48-9<br>270-220-1<br><br>01-2120786863-37-<br>XXXX  | Skin Sens. 1B;<br>H317<br>Aquatic Chronic 4;<br>H413 |                                                                                       | >= 0,25 - < 1            |
| Substances with a workplace exposure limit :                           |                                                           |                                                      |                                                                                       |                          |
| Residual oils<br>(petroleum), solvent-                                 | 64742-62-7<br>265-166-0                                   | Not classified                                       |                                                                                       | >= 50 - < 70             |

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|                                                      |                                                     |                |        |                  |
|------------------------------------------------------|-----------------------------------------------------|----------------|--------|------------------|
| dewaxed; Baseoil — unspecified                       | 649-471-00-X<br>01-2119480472-38-XXXX               |                | Note L |                  |
| Asphalt                                              | 8052-42-4<br>232-490-9<br><br>01-2119480172-44-XXXX | Not classified |        | $\geq 10 - < 20$ |
| Graphite (natural)                                   | 7782-42-5<br>231-955-3                              | Not classified |        | $\geq 1 - < 10$  |
| Fatty acids, C16-18 (even numbered), aluminium salts | 939-582-4<br><br>01-2119978504-28-XXXX              | Not classified |        | $\geq 1 - < 10$  |

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.<br>Keep patient warm and at rest.<br>If unconscious, place in recovery position and seek medical advice.<br>Keep respiratory tract clear.<br>If breathing is irregular or stopped, administer artificial respiration. |
| In case of skin contact | : Take off all contaminated clothing immediately.<br>Wash off immediately with soap and plenty of water.<br>Get medical attention immediately if irritation develops and persists.<br>Wash clothing before reuse.<br>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.<br>If eye irritation persists, consult a specialist.                                                                                                                                                        |
| If swallowed            | : Move the victim to fresh air.<br>If unconscious, place in recovery position and seek medical advice.                                                                                                                                                                                                 |

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Keep respiratory tract clear.  
Do not induce vomiting without medical advice.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.

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

Symptoms : No symptoms known or expected.

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

Treatment : Treat symptomatically.

## 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

High volume water jet

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

Hazardous combustion products : Carbon oxides  
Sulphur oxides  
Oxides of phosphorus  
Metal oxides

### 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.

## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Do not breathe vapours, aerosols.  
Refer to protective measures listed in sections 7 and 8.

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### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

For personal protection see section 8.

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## 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.  
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.

### 7.3 Specific end use(s)

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

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                                                        | CAS-No.      | Value type (Form of exposure)     | Control parameters                              | Basis               |
|-------------------------------------------------------------------|--------------|-----------------------------------|-------------------------------------------------|---------------------|
| Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified | 64742-62-7   | VLA-ED (Mist)                     | 5 mg/m <sup>3</sup>                             | ES VLA (2019-02-20) |
|                                                                   |              | VLA-EC (Mist)                     | 10 mg/m <sup>3</sup>                            | ES VLA (2019-02-20) |
| Asphalt                                                           | 8052-42-4    | VLA-ED (Fumes)                    | 0,5 mg/m <sup>3</sup> (benzene soluble aerosol) | ES VLA (2024-01-15) |
| Graphite (natural)                                                | 7782-42-5    | VLA-ED (respirable dust fraction) | 2 mg/m <sup>3</sup>                             | ES VLA (2017-02-01) |
| Fatty acids, C16-18 (even numbered), aluminium salts              | Not Assigned | VLA-ED                            | 10 mg/m <sup>3</sup>                            | ES VLA (2012-01-01) |
|                                                                   |              | VLA-ED (respirable fraction)      | 1 mg/m <sup>3</sup> (Aluminium)                 | ES VLA (2021-04-01) |

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

| Substance name                                                                               | End Use | Exposure routes | Potential health effects   | Value                    |
|----------------------------------------------------------------------------------------------|---------|-----------------|----------------------------|--------------------------|
| Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified                            | Workers | Inhalation      | Long-term systemic effects | 2,73 mg/m <sup>3</sup>   |
|                                                                                              | Workers | Inhalation      | Long-term local effects    | 5,58 mg/m <sup>3</sup>   |
|                                                                                              | Workers | Dermal          | Long-term systemic effects | 0,97 mg/kg               |
| Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl) phenyl phosphate | Workers | Inhalation      | Long-term systemic effects | 2,03 mg/m <sup>3</sup>   |
|                                                                                              | Workers | Inhalation      | Long-term local effects    | 0,2 mg/m <sup>3</sup>    |
|                                                                                              | Workers | Dermal          | Long-term systemic effects | 0,056 mg/kg bw/day       |
|                                                                                              | Workers | Dermal          | Long-term local effects    | 0,001 mg/cm <sup>2</sup> |

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

| Substance name                                                                               | Environmental Compartment                            | Value         |
|----------------------------------------------------------------------------------------------|------------------------------------------------------|---------------|
| Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified                            | Oral                                                 | 9,33 mg/kg    |
| Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl) phenyl phosphate | Fresh water                                          | 0,000116 mg/l |
|                                                                                              | Marine water                                         | 0,000012 mg/l |
|                                                                                              | Microbiological Activity in Sewage Treatment Systems | 1 mg/l        |
|                                                                                              | Fresh water sediment                                 | 0,51 mg/kg    |
|                                                                                              | Marine sediment                                      | 0,051 mg/kg   |
|                                                                                              | Soil                                                 | 0,118 mg/kg   |

## 8.2 Exposure controls

### Engineering measures

none

### Personal protective equipment

Eye/face protection : Safety glasses

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.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

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.

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### Environmental exposure controls

|       |   |                                                                               |
|-------|---|-------------------------------------------------------------------------------|
| Air   | : | No special environmental precautions required.                                |
| Soil  | : | The product should not be allowed to enter drains, water courses or the soil. |
| Water | : | The product should not be allowed to enter drains, water courses or the soil. |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                  |   |                                                  |
|--------------------------------------------------|---|--------------------------------------------------|
| Physical state                                   | : | solid                                            |
| Form                                             | : | paste                                            |
| Colour                                           | : | black                                            |
| Odour                                            | : | characteristic                                   |
| Odour Threshold                                  | : | No data available                                |
| Melting point/ range                             | : | No data available                                |
| Boiling point/boiling range                      | : | > 300 °C                                         |
| Flammability                                     | : | Flammability (solid, gas):<br>Combustible Solids |
| Upper explosion limit / Upper flammability limit | : | No data available                                |
| Lower explosion limit / Lower flammability limit | : | No data available                                |
| Flash point                                      | : | Not applicable                                   |
| Auto-ignition temperature                        | : | No data available                                |

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Decomposition temperature : No data available

pH : Not applicable

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-  
octanol/water : No data available

Vapour pressure : < 0,001 hPa (20 °C)

Relative density : 0,98 (20 °C)  
Reference substance: Water  
The value is calculated

Density : 0,98 g/cm<sup>3</sup>  
(20 °C)

Bulk density : No data available

Relative vapour density : No data available

Particle characteristics  
Particle size : Not applicable

Particle Size Distribution : Not applicable

## 9.2 Other information

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|                      |   |                   |
|----------------------|---|-------------------|
| Explosives           | : | Not explosive     |
| Oxidizing properties | : | No data available |
| Self-ignition        | : | No data available |
| Evaporation rate     | : | No data available |
| Sublimation point    | : | 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 hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Product:

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

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

Acute dermal toxicity : Symptoms: Redness, Local irritation

### Components:

#### **dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:**

Acute oral toxicity : LD50 (Rat): 11.300 mg/kg  
Method: OECD Test Guideline 401

#### **Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:**

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

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

#### **Asphalt:**

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

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Graphite (natural):**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 2.000 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

#### **Fatty acids, C16-18 (even numbered), aluminium salts:**

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

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### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Product:

Remarks : This information is not available.

#### Components:

##### **dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:**

|            |                      |
|------------|----------------------|
| Species    | : Rabbit             |
| Assessment | : No skin irritation |
| Result     | : No skin irritation |

##### **Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:**

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

##### **Asphalt:**

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

##### **Graphite (natural):**

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

##### **Fatty acids, C16-18 (even numbered), aluminium salts:**

|            |                      |
|------------|----------------------|
| Species    | : Human              |
| Assessment | : No skin irritation |
| Result     | : No skin irritation |

### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

#### Product:

Remarks : This information is not available.

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### Components:

#### **dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:**

|            |                     |
|------------|---------------------|
| Species    | : Rabbit            |
| Assessment | : No eye irritation |
| Result     | : No eye irritation |

#### **Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:**

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

#### **Asphalt:**

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

#### **Graphite (natural):**

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

#### **Fatty acids, C16-18 (even numbered), aluminium salts:**

|            |                     |
|------------|---------------------|
| Assessment | : No eye irritation |
| Result     | : No eye irritation |

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Based on available data, the classification criteria are not met.

#### **Respiratory sensitisation**

Based on available data, the classification criteria are not met.

### Product:

|         |                                      |
|---------|--------------------------------------|
| Remarks | : This information is not available. |
|---------|--------------------------------------|

### Components:

#### **dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:**

|            |                                                      |
|------------|------------------------------------------------------|
| Assessment | : The product is a skin sensitiser, sub-category 1B. |
| Result     | : The product is a skin sensitiser, sub-category 1B. |

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### **Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:**

|            |   |                                                    |
|------------|---|----------------------------------------------------|
| 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                                                |

### **Asphalt:**

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

### **Graphite (natural):**

|         |   |                         |
|---------|---|-------------------------|
| Species | : | Mouse                   |
| Method  | : | OECD Test Guideline 429 |
| Result  | : | negative                |

### **Fatty acids, C16-18 (even numbered), aluminium salts:**

|            |   |                                                    |
|------------|---|----------------------------------------------------|
| Assessment | : | Did not cause sensitisation on laboratory animals. |
| Result     | : | Did not cause sensitisation on laboratory animals. |

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

### **Product:**

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

### **Components:**

### **Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:**

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

### **Graphite (natural):**

|                       |   |                                                                                                                                                                                                       |
|-----------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : | Test Type: Microbial mutagenesis assay (Ames test)<br>Method: OECD Test Guideline 471<br>Result: negative<br><br>Test Type: gene mutation test<br>Method: OECD Test Guideline 476<br>Result: negative |
|-----------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Product:

Remarks : No data available

### Components:

#### **Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:**

Carcinogenicity - : No evidence of carcinogenicity in animal studies.  
Assessment

### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### Components:

#### **Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:**

Reproductive toxicity - : - Fertility -  
Assessment  
No toxicity to reproduction  
- Teratogenicity -  
No effects on or via lactation

### **Graphite (natural):**

Effects on fertility : Species: Rat  
Application Route: Oral  
General Toxicity F1: NOAEL: 813 mg/kg body weight  
Method: OECD Test Guideline 422

### STOT - single exposure

Based on available data, the classification criteria are not met.

#### Product:

Remarks : No data available

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### Components:

#### **Asphalt:**

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

#### **STOT - repeated exposure**

Based on available data, the classification criteria are not met.

### Product:

Remarks : No data available

### Components:

#### **Asphalt:**

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.

### Components:

#### **Graphite (natural):**

Species : Rat  
NOAEL : 813 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 422

Species : Rat  
NOAEL : > 2 mg/l  
Application Route : inhalation (dust/mist/fume)  
Method : OECD Test Guideline 412

#### **Aspiration toxicity**

Based on available data, the classification criteria are not met.

### Product:

This information is not available.

### Components:

#### **Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:**

No aspiration toxicity classification

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### Asphalt:

No aspiration toxicity classification

## 11.2 Information on other hazards

### Endocrine disrupting properties

Based on available data, the classification criteria are not met.

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 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: No data available

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:

### Fatty acids, C16-18 and C18-unsatd., Me esters, sulfurized:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): > 100 mg/l  
Exposure time: 72 h

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### **dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,002 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

### **Residual oils (petroleum), solvent-dewaxed; 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  
  
NOEC (Pimephales promelas (fathead minnow)): >= 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : LC50 : > 10.000 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202  
  
NOEC : >= 10.000 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202

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

### **Graphite (natural):**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h

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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 : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

### Components:

#### **Fatty acids, C16-18 and C18-unsatd., Me esters, sulfurized:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 35 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

#### **dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 12,1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

#### **Residual oils (petroleum), solvent-dewaxed; 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

#### **Graphite (natural):**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

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### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:**

Partition coefficient: n-octanol/water : log Pow: > 6,5  
Method: OECD Test Guideline 117  
GLP: yes

##### **Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:**

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Pow: > 3,5

### 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:

##### **Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:**

Assessment : Substance is not very persistent and very bioaccumulative (vPvB).. Substance is not persistent, bioaccumulative, and toxic (PBT).

#### **Asphalt:**

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

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### 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### **Product:**

Additional ecological information : No information on ecology is available.

## 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 or ID number

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|      |   |                                   |
|------|---|-----------------------------------|
| ADR  | : | Not regulated as a dangerous good |
| RID  | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

### 14.2 UN proper shipping name

|      |   |                                   |
|------|---|-----------------------------------|
| ADR  | : | Not regulated as a dangerous good |
| RID  | : | 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 |
| RID  | : | 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 |
| RID              | : | 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 |
| RID  | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |

### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

|         |   |                                         |
|---------|---|-----------------------------------------|
| Remarks | : | Not applicable for product as supplied. |
|---------|---|-----------------------------------------|

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## SECTION 15: Regulatory information

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

|                                                                                                                                                         |                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)              | : Not applicable                                                                                                    |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC)                                                     | : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). |
| Regulation (EU) No 2024/590 on substances that deplete the ozone layer (EC 2024/590)                                                                    | : Not applicable                                                                                                    |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast) (EU POP)                                                                            | : Not applicable                                                                                                    |
| Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals (EU PIC)                 | : Not applicable                                                                                                    |
| REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV)                                                                   | : Not applicable                                                                                                    |
| Regulation (EU) 2019/1148 on the marketing and use of explosives precursors                                                                             | 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. | Not applicable                                                                                                      |

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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 3,93 %

### 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.  
H412 : Harmful to aquatic life with long lasting effects.  
H413 : May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard  
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.  
Skin Sens. : Skin sensitisation  
ES VLA : Spain. Environmental Limits for exposure to Chemical agents - Table 1: Occupational Exposure Values  
ES VLA / VLA-ED : Environmental Daily Limit Value  
ES VLA / VLA-EC : Environmental Short Term Value

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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

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Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation 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 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; TECI - Thailand Existing Chemicals 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

|| Relevant changes compared to the last edition are highlighted at the left margin. This version replaces all previous editions.

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