

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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## Superpower C-4 5W30

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

#### 1.1. Product identifier

**Trade name/designation:**

Superpower C-4 5W30

**Article No.:**

08090

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

**Use of the substance/mixture:**

Lubricant

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**EMKA Schmiertechnik GmbH**

Schmalbachstr. 19

74626 Bretzfeld-Schwabbach

Germany

**Telephone:** +49 7946 944700

**Telefax:** +49 7946 9447070

**E-mail:** info@emka-oil.de

**Website:** www.emka-oil.de

**E-mail (competent person):** info@emka-oil.de

#### 1.4. Emergency telephone number

+49 551 19240 (24h/EN/DE)

### SECTION 2: Hazards identification

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

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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#### 2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

**Hazard components for labelling:**

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

**Hazard statements:** -

**Supplemental hazard information:** -

**Precautionary statements:** -

#### 2.3. Other hazards

No data available

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### SECTION 3: Composition / information on ingredients

#### 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 72623-87-1 EC No.: 276-738-4 REACH No.: 01-2119474889-13-0000	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	48 - ≤ 80.2 weight-%
CAS No.: 64742-54-7 EC No.: 265-157-1 REACH No.: 01-2119484627-25	<b>Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified</b> Asp. Tox. 1  <b>Danger</b> H304	1 - < 3.19 weight-%
CAS No.: 72623-86-0 EC No.: 276-737-9 REACH No.: 01-2119474878-16	<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</b> Asp. Tox. 1  <b>Danger</b> H304	1 - < 1.86 weight-%
CAS No.: 36878-20-3 EC No.: 253-249-4 REACH No.: 01-2119488911-28	<b>bis(nonylphenyl)amine</b> Aquatic Chronic 4 H413	0 - < 1.33 weight-%
CAS No.: 64742-65-0 EC No.: 265-169-7 REACH No.: 01-2119471299-27	<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> Asp. Tox. 1  <b>Danger</b> H304	0 - < 1.33 weight-%
CAS No.: 84605-29-8 EC No.: 283-392-8 REACH No.: 01-2119493626-26	<b>Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts</b> Aquatic Chronic 2, Eye Dam. 1, Skin Irrit. 2   <b>Danger</b> H315-H318-H411	0 - < 0.84 weight-%

Full text of H- and EUH-phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

##### Following inhalation:

Provide fresh air. Consult a doctor immediately.

##### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately.

##### Following ingestion:

Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately. Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

No known symptoms to date.

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

Treat symptomatically. Observe risk of aspiration if vomiting occurs.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Use water spray jet to protect personnel and to cool endangered containers. Water spray jet alcohol resistant foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media:**

Full water jet

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

During heating or in case of fire, toxic gases is possible.

The formation of combustible vapours is possible at temperatures above: Flash point Combustible

**Hazardous combustion products:**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>),

During heating or in case of fire, toxic gases is possible. In case of fire: Gases/vapours, toxic

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing. Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4. Additional information

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

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

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

**Personal precautions:**

Use personal protection equipment. Special danger of slipping by leaking/spilling product. Avoid breathing dust/fume/gas/mist/vapours/spray. Remove persons to safety.

**Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

**Emergency procedures:**

Remove persons to safety.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Use personal protection equipment. Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

**For containment:**

Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up:**

Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**Other information:**

Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

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### 6.5. Additional information

Clear spills immediately. Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Personal protection equipment: see section 8 When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination. Wear personal protection equipment (refer to section 8).

##### Fire prevent measures:

No special fire protection measures are necessary. Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking.

##### Environmental precautions:

See section 8.

#### Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink or smoke. Avoid contact with eyes and skin.

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

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

#### Requirements for storage rooms and vessels:

Suitable container/equipment material: Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product.

Keep/Store only in original container.

#### Hints on storage assembly:

not required

**Storage class:** 10 - Combustible liquids that cannot be assigned to any of the above storage classes

#### Further information on storage conditions:

Store in a cool dry place. Keep away from heat.

### 7.3. Specific end use(s)

#### Recommendation:

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	Hydrocarbons, TRGS 900	① 0 mg/m <sup>3</sup> ⑤ Mass fraction (wt %): 0

#### 8.1.2. Biological limit values

No data available

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### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9	2.73 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9	5.58	① DNEL worker ② Long-term - inhalation, local effects
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9	0.97 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	5 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	8.31 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	12.1 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2	1.17 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects

Substance name	PNEC Value	① PNEC type
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9	9.99 mg/kg	① PNEC secondary poisoning
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	412 µg/l	① PNEC aquatic, freshwater
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	41.2 µg/l	① PNEC aquatic, marine water
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	1 mg/l	① PNEC aquatic, intermittent release
Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7	9.33 mg/kg	① PNEC secondary poisoning
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	4 µg/l	① PNEC aquatic, freshwater
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	4.6 µg/l	① PNEC aquatic, marine water
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	100 mg/l	① PNEC sewage treatment plant

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Substance name	PNEC Value	① PNEC type
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	0.02203 mg/kg bw/day	① PNEC sediment, freshwater
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	0.002203 mg/kg bw/day	① PNEC sediment, marine water
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	0.00206 mg/kg bw/day	① PNEC soil
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	10.67 mg/kg bw/day	① PNEC secondary poisoning
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	45 µg/l	① PNEC aquatic, intermittent release
C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2	100 µg/l	① PNEC aquatic, freshwater
C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2	10 µg/l	① PNEC aquatic, marine water
C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2	100 mg/l	① PNEC sewage treatment plant
C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2	4,266.16 mg/kg bw/day	① PNEC sediment, freshwater
C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2	426.62 mg/kg bw/day	① PNEC sediment, marine water
C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2	852.58 mg/kg bw/day	① PNEC soil
C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2	3.3 mg/kg bw/day	① PNEC secondary poisoning
C14-16-18 Alkyl phenol CAS No.: 1190625-94-5 EC No.: 931-468-2	1 mg/l	① PNEC aquatic, intermittent release

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

### 8.2.2. Personal protection equipment

#### Eye/face protection:

During transfer: Eye glasses with side protection

Wear eye/face protection. DIN EN 166

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### Skin protection:

Hand protection

Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber)

Thickness of the glove material:  $\geq 0,4$  mm

Breakthrough time: 480 min

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Tested protective gloves must be worn: EN ISO 374

Suitable protective clothing: Protective clothing In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

### Respiratory protection:

Usually no personal respirative protection necessary. Filtering device with filter or ventilator filtering device of type: A

### 8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

### 8.3. Additional information

Mineral oil mist limits:

OSHA PEL - value  $5 \text{ mg} / \text{m}^3$ , ACGIH STEL - value of  $10 \text{ mg} / \text{m}^3$

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Colour:** yellow

**Odour:** not determined

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	not determined			
Melting point	not determined			
Freezing point	-45 °C			
Initial boiling point and boiling range	not determined			
Decomposition temperature	not determined			
Flash point	236 °C			
Evaporation rate	not determined			
Auto-ignition temperature	not determined			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Density	$850 \text{ kg/m}^3$	15 °C		
Bulk density	not determined			
Water solubility	not determined			
Partition coefficient: n-octanol/water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	$72 \text{ mm}^2/\text{s}$	40 °C		

### 9.2. Other information

No data available

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## Superpower C-4 5W30

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No known hazardous reactions. Combustible

#### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4. Conditions to avoid

To avoid thermal decomposition do not overheat.

#### 10.5. Incompatible materials

Materials to avoid: Acid, Oxidising agent, Reducing agent

#### 10.6. Hazardous decomposition products

Hazardous combustion products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx) Gases/ vapours, toxic

### SECTION 11: Toxicological information

#### \* 11.1. Information on toxicological effects

Substance name	Toxicological information
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS No.: 72623-87-1 EC No.: 276-738-4	<b>LD<sub>50</sub> oral:</b> 5,000 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 5.53 mg/l 4 h (Rat)
Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified CAS No.: 64742-54-7 EC No.: 265-157-1	<b>LD<sub>50</sub> oral:</b> 5,000 mg/kg (Rat) OECD 401 <b>LD<sub>50</sub> dermal:</b> 5,000 mg/kg (Rabbit) OECD 402 <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 5.53 mg/l 4 h (Rat) OECD 403
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9	<b>LD<sub>50</sub> oral:</b> 5,000 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5.53 mg/l 4 h
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil CAS No.: 72623-87-1 EC No.: 276-738-4	<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) OECD 401 <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit) OECD 402
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	<b>LD<sub>50</sub> oral:</b> 5,000 g/m <sup>3</sup> (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 g/m <sup>3</sup> (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/l
Distillates (petroleum), solvent-dewaxed light paraffinic CAS No.: 64742-56-9 EC No.: 265-159-2	<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Ratte) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Kaninchen)



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Substance name	Toxicological information
Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7	<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/l
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	<b>LD<sub>50</sub> dermal:</b> 2,002 mg/kg

**Acute oral toxicity:**

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

**Acute dermal toxicity:**

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

**Acute inhalation toxicity:**

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

**Skin corrosion/irritation:**

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

**Serious eye damage/irritation:**

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

**Respiratory or skin sensitisation:**

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

**Germ cell mutagenicity:**

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

**Carcinogenicity:**

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

**Reproductive toxicity:**

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

**STOT-single exposure:**

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

**STOT-repeated exposure:**

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

**Aspiration hazard:**

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

**Additional information:**

No data available

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### SECTION 12: Ecological information

#### \* 12.1. Toxicity

Substance name	Toxicological information
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS No.: 72623-87-1 EC No.: 276-738-4	<b>LC<sub>50</sub></b> : ≥100 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) <b>ErC<sub>50</sub></b> : ≥100 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) <b>EC<sub>50</sub></b> : 10,000 mg/l 2 d (crustaceans) <b>NOEC</b> : 10 mg/l 21 d (crustaceans, Daphnia magna (Big water flea))
Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified CAS No.: 64742-54-7 EC No.: 265-157-1	<b>LC<sub>50</sub></b> : 100 mg/l 4 d (fish) <b>NOEC</b> : 100 mg/l 4 d (fish) <b>EC<sub>50</sub></b> : 10,000 mg/l 2 d (crustaceans) <b>LC<sub>50</sub></b> : 10,000 mg/l 4 d (crustaceans) <b>NOEC</b> : 100 mg/l 3 d (Algae/water plant)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil CAS No.: 72623-87-1 EC No.: 276-738-4	<b>EC<sub>50</sub></b> : >100 mg/l 2 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201 <b>NOEC</b> : 10 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211 <b>EC<sub>50</sub></b> : >10,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 <b>NOEC</b> : >100 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201 <b>NOEC</b> : >100 mg/l 4 d (fish, Pimephales promelas (fathead minnow))
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	<b>LC<sub>50</sub></b> : >100 mg/l 4 d (fish) <b>EC<sub>50</sub></b> : >100 mg/l 2 d (crustaceans) <b>EC<sub>50</sub></b> : 600 mg/l 3 d (Algae/water plant)
Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7	<b>LC<sub>50</sub></b> : >1,000 mg/l 4 d (fish, Salmo gairdneri) <b>EC<sub>50</sub></b> : >1,000 mg/l 2 d (crustaceans, Daphnia Magna) <b>EC<sub>50</sub></b> : >1,000 mg/l 4 d (Algae/water plant, Scenedesmus subspicatus)
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	<b>LC<sub>50</sub></b> : 46 mg/l 4 d (fish) <b>NOEC</b> : ≥0.4 - ≤0.8 mg/l 21 d (crustaceans) <b>NOEC</b> : ≥21 - ≤24 mg/l 3 d (Algae/water plant)

#### \* 12.2. Persistence and degradability

Substance name	Biodegradation	Remark
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS No.: 72623-87-1 EC No.: 276-738-4	Yes, slowly	
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	—	

#### \* 12.3. Bioaccumulative potential

Substance name	Log K <sub>OW</sub>	Bioconcentration factor (BCF)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS No.: 72623-87-1 EC No.: 276-738-4	6	
bis(nonylphenyl)amine CAS No.: 36878-20-3	7.6	1,584.89

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Substance name	Log K <sub>ow</sub>	Bioconcentration factor (BCF)
EC No.: 253-249-4		

\* **12.4. Mobility in soil**

No data available

\* **12.5. Results of PBT and vPvB assessment**

Substance name	Results of PBT and vPvB assessment
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS No.: 72623-87-1 EC No.: 276-738-4	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified CAS No.: 64742-54-7 EC No.: 265-157-1	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil CAS No.: 72623-87-1 EC No.: 276-738-4	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts CAS No.: 84605-29-8 EC No.: 283-392-8	PBT-substance.

**12.6. Other adverse effects**

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### Waste treatment options

##### Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Non-contaminated packages may be recycled.

### 13.2. Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

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Land transport (ADR/ RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI / IATA-DGR)
<b>14.1. UN-No.</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es)</b>			
not relevant			
<b>14.4. Packing group</b>			
not relevant			
<b>14.5. Environmental hazards</b>			
not relevant			
<b>14.6. Special precautions for user</b>			
not relevant			
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>			
not applicable			

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Other regulations (EU):

Safety data sheet available for professional user on request.

#### 15.1.2. National regulations

##### [DE] National regulations

##### Störfallverordnung

##### for substances contained in the product:

E2 Hazardous to the aquatic environment in Category Chronic 2

##### Technische Anleitung Luft (TA-Luft)

##### Remark:

To follow: 5.2.5

##### Water hazard class

##### WGK:

2 - deutlich wassergefährdend

##### Source:

Self-classification (mixture; calculation rule).

##### Technische Regeln für Gefahrstoffe

TRGS 510

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

##### Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868

Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195

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### Other regulations, restrictions and prohibition regulations

Altöl-Verordnung (AltöIV)

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

2.2.	Label elements
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
11.1.	Information on toxicological effects
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.4.	Mobility in soil
12.5.	Results of PBT and vPvB assessment
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture

### 16.2. Abbreviations and acronyms

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### 16.3. Key literature references and sources for data

67/548/EEC - Dangerous Substances Directive 1999/45/EEC - Dangerous Preparations Directive EC 1907/2006 - REACH Regulation 1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006 Regulation (EC) No 1907/2006 (REACH), Annex II European Chemicals Agency (ECHA), C & L classification and labeling inventory European Chemicals Agency (ECHA), ECHA CHEM Registered substances OECD The Global Portal to Information on Chemical Substances (ChemPortal) Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### 16.6. Training advice

No data available

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### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

\* Data changed compared with the previous version