

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SYNTH RS SAE 10W-60**

Revision: 02.02.2026

Product code: 20070

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

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**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Motor oil

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

|                 |                         |                               |
|-----------------|-------------------------|-------------------------------|
| Company name:   | ROWE Mineralölwerk GmbH |                               |
| Street:         | Langgewann 101          |                               |
| Place:          | D-67547 Worms           |                               |
| Telephone:      | +49 (0)6241 5906-0      | Telefax: +49 (0)6241 5906-999 |
| E-mail:         | info@rowe-oil.com       |                               |
| Contact person: | Product Compliance      |                               |
| E-mail:         | sdb@rowe-oil.com        |                               |
| Internet:       | www.rowe-oil.com        |                               |

**1.4. Emergency telephone number:**

Ireland: Public (8am-10pm) +353 180 921 66, Healthcare Professionals +353 1809 2566 other Countries: Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

Classification procedure H317: Test results

**2.2. Label elements****Regulation (EC) No 1272/2008****Special labelling**

|        |                                                                      |
|--------|----------------------------------------------------------------------|
| EUH208 | Contains C14-C16-C18 Alkylphenole. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request.                              |

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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**Relevant ingredients**

| CAS No       | Chemical name                                                                             |              |                  | Quantity    |
|--------------|-------------------------------------------------------------------------------------------|--------------|------------------|-------------|
|              | EC No                                                                                     | Index No     | REACH No         |             |
|              | Classification (Regulation (EC) No 1272/2008)                                             |              |                  |             |
| 112-41-4     | 1-Dodecene                                                                                |              |                  | 15 - < 30 % |
|              | 203-968-4                                                                                 |              | 01-2119475509-26 |             |
|              | Asp. Tox. 1; H304 EUH066                                                                  |              |                  |             |
| 157707-86-3  | Dec-1-ene, trimers, hydrogenated (international CAS 68037-01-4)                           |              |                  | 5 - < 15 %  |
|              | 500-393-3                                                                                 |              | 01-2119493949-12 |             |
|              | Asp. Tox. 1; H304                                                                         |              |                  |             |
| 64742-56-9   | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified (Note L) |              |                  | 1 - < 2.5 % |
|              | 265-159-2                                                                                 | 649-469-00-9 | 01-2119480132-48 |             |
|              | Asp. Tox. 1; H304                                                                         |              |                  |             |
| 64742-54-7   | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L)    |              |                  | 1 - < 2.5 % |
|              | 265-157-1                                                                                 | 649-467-00-8 | 01-2119484627-25 |             |
|              | Asp. Tox. 1; H304                                                                         |              |                  |             |
| 64742-65-0   | Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified (Note L) |              |                  | 1 - < 2.5 % |
|              | 265-169-7                                                                                 | 649-474-00-6 | 01-2119471299-27 |             |
|              | Asp. Tox. 1; H304                                                                         |              |                  |             |
| 64742-70-7   | Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified (Note L)        |              |                  | 1 - < 2.5 % |
|              | 265-174-4                                                                                 | 649-477-00-2 | 01-2119487080-42 |             |
|              | Asp. Tox. 1; H304                                                                         |              |                  |             |
| 1190625-94-5 | C14-C16-C18 Alkylphenole                                                                  |              |                  | 1 - < 2.5 % |
|              | 931-468-2                                                                                 |              | 01-2119498288-19 |             |
|              | Skin Sens. 1, STOT RE 2; H317 H373                                                        |              |                  |             |
| 93819-94-4   | Zinc bis[O-(6-methylheptyl)]bis[O-(secbutyl)]bis(dithiophosphate)                         |              |                  | 1 - < 2.5 % |
|              | 298-577-9                                                                                 |              | 01-2119543726-33 |             |
|              | Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411                              |              |                  |             |

Full text of H and EUH statements: see section 16.

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**Specific Conc. Limits, M-factors and ATE**

| CAS No      | EC No     | Chemical name                                                                                                                 | Quantity    |
|-------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|-------------|
|             |           | Specific Conc. Limits, M-factors and ATE                                                                                      |             |
| 112-41-4    | 203-968-4 | 1-Dodecene                                                                                                                    | 15 - < 30 % |
|             |           | inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg                             |             |
| 157707-86-3 | 500-393-3 | Dec-1-ene, trimers, hydrogenated (international CAS 68037-01-4)                                                               | 5 - < 15 %  |
|             |           | oral: LD50 = > 5000 mg/kg                                                                                                     |             |
| 64742-56-9  | 265-159-2 | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified (Note L)                                     | 1 - < 2.5 % |
|             |           | inhalation: LC50 = 5,53 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg                         |             |
| 64742-54-7  | 265-157-1 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L)                                        | 1 - < 2.5 % |
|             |           | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg                                                                        |             |
| 64742-65-0  | 265-169-7 | Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified (Note L)                                     | 1 - < 2.5 % |
|             |           | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg                                                                        |             |
| 64742-70-7  | 265-174-4 | Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified (Note L)                                            | 1 - < 2.5 % |
|             |           | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg                                                                        |             |
| 93819-94-4  | 298-577-9 | Zinc bis[O-(6-methylheptyl)]bis[O-(secbutyl)]bis(dithiophosphate)                                                             | 1 - < 2.5 % |
|             |           | oral: LD50 = 2600 mg/kg Skin Irrit. 2; H315: >= 6,25 - 100 Eye Dam. 1; H318: >= 12,5 - 100 Eye Irrit. 2; H319: >= 10 - < 12,5 |             |

**Further Information**

Specific chemical identities and/or actual percentages concentration have been withheld as trade secrets.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

When in doubt or if symptoms are observed, get medical advice.

**After inhalation**

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

**After contact with skin**

Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

No information available.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**
**5.1. Extinguishing media**
**Suitable extinguishing media**

 Water spray jet. Foam. Carbon dioxide (CO<sub>2</sub>).

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Co-ordinate fire-fighting measures to the fire surroundings.

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

Combustible. Non-flammable.

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Pyrolysis products, toxic.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. 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****General advice**

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

**For non-emergency personnel**

Provide adequate ventilation. Use personal protection equipment. Remove persons to safety.

**For emergency responders**

Wear personal protection equipment (refer to section 8).

**6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment.

**6.3. Methods and material for containment and cleaning up****For containment**

Prevent spread over a wide area (e.g. by containment or oil barriers). Cover drains. Stop leak if safe to do so.

**For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Other information**

Clean contaminated articles and floor according to the environmental legislation.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with eyes and skin. Use personal protection equipment.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

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

**Hints on joint storage**

Do not store together with: Oxidizing agent, Reducing agent, Strong acid, Strong alkali.

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**Further information on storage conditions**

Keep away from heat.

maximum storage temperature: 80 °C

**7.3. Specific end use(s)**

Motor oil

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

| CAS No | Substance                                               | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category  | Origin |
|--------|---------------------------------------------------------|-----|-------------------|---------------------|-----------|--------|
| -      | Mineral Oil pure, highly & severely refined (Inhalable) | -   | 5                 |                     | TWA (8 h) |        |

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**DNEL/DMEL values**

| CAS No                   | Substance                                                                                            | Exposure route | Effect                 | Value |
|--------------------------|------------------------------------------------------------------------------------------------------|----------------|------------------------|-------|
| 64742-54-7               | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L)               |                |                        |       |
| Worker DNEL, long-term   | inhalation                                                                                           | systemic       | 2,73 mg/m <sup>3</sup> |       |
| 72623-87-1               | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified (Note L) |                |                        |       |
| Worker DNEL, long-term   | inhalation                                                                                           | systemic       | 2,73 mg/m <sup>3</sup> |       |
| Worker DNEL, long-term   | inhalation                                                                                           | local          | 5,58 mg/m <sup>3</sup> |       |
| Worker DNEL, long-term   | dermal                                                                                               | systemic       | 0,97 mg/kg bw/day      |       |
| Consumer DNEL, long-term | inhalation                                                                                           | local          | 1,19 mg/m <sup>3</sup> |       |
| Consumer DNEL, long-term | oral                                                                                                 | systemic       | 0,74 mg/kg bw/day      |       |
| 64742-56-9               | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified (Note L)            |                |                        |       |
| Worker DNEL, long-term   | dermal                                                                                               | systemic       | 0,97 mg/kg bw/day      |       |
| Worker DNEL, long-term   | inhalation                                                                                           | systemic       | 2,73 mg/m <sup>3</sup> |       |
| Worker DNEL, long-term   | inhalation                                                                                           | local          | 5,58 mg/m <sup>3</sup> |       |
| Consumer DNEL, long-term | oral                                                                                                 | systemic       | 0,74 mg/kg bw/day      |       |
| Consumer DNEL, long-term | inhalation                                                                                           | local          | 1,19 mg/m <sup>3</sup> |       |
| 64742-54-7               | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L)               |                |                        |       |
| Worker DNEL, long-term   | inhalation                                                                                           | local          | 5,58 mg/m <sup>3</sup> |       |
| Worker DNEL, long-term   | dermal                                                                                               | systemic       | 0,97 mg/kg bw/day      |       |
| Worker DNEL, long-term   | inhalation                                                                                           | systemic       | 2,73 mg/m <sup>3</sup> |       |
| Consumer DNEL, long-term | inhalation                                                                                           | local          | 1,19 mg/m <sup>3</sup> |       |
| Consumer DNEL, long-term | oral                                                                                                 | systemic       | 0,74 mg/kg bw/day      |       |
| 64742-65-0               | Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified (Note L)            |                |                        |       |
| Worker DNEL, long-term   | inhalation                                                                                           | systemic       | 2,73 mg/m <sup>3</sup> |       |
| Worker DNEL, long-term   | inhalation                                                                                           | local          | 5,58 mg/m <sup>3</sup> |       |
| Worker DNEL, long-term   | dermal                                                                                               | systemic       | 0,97 mg/kg bw/day      |       |
| Consumer DNEL, long-term | inhalation                                                                                           | local          | 1,19 mg/m <sup>3</sup> |       |
| Consumer DNEL, long-term | oral                                                                                                 | systemic       | 0,74 mg/kg bw/day      |       |
| 1190625-94-5             | C14-C16-C18 Alkylphenole                                                                             |                |                        |       |
| Worker DNEL, long-term   | inhalation                                                                                           | systemic       | 1,17 mg/m <sup>3</sup> |       |
| Worker DNEL, long-term   | dermal                                                                                               | systemic       | 0,3 mg/kg bw/day       |       |
| 93819-94-4               | Zinc bis[O-(6-methylheptyl)]bis[O-(secbutyl)]bis(dithiophosphate)                                    |                |                        |       |
| Worker DNEL, long-term   | inhalation                                                                                           | systemic       | 8,31 mg/m <sup>3</sup> |       |
| Worker DNEL, long-term   | dermal                                                                                               | systemic       | 0,58 mg/kg bw/day      |       |
| Consumer DNEL, long-term | inhalation                                                                                           | systemic       | 2,11 mg/m <sup>3</sup> |       |
| Consumer DNEL, long-term | dermal                                                                                               | systemic       | 0,29 mg/kg bw/day      |       |

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|                          |      |          |                      |
|--------------------------|------|----------|----------------------|
| Consumer DNEL, long-term | oral | systemic | 0,24 mg/kg<br>bw/day |
|--------------------------|------|----------|----------------------|

#### PNEC values

| CAS No                                           | Substance                                                                                            | Value         |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------|
| Environmental compartment                        |                                                                                                      |               |
| 72623-87-1                                       | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified (Note L) |               |
| Secondary poisoning                              |                                                                                                      | 9,33 mg/kg    |
| 64742-54-7                                       | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L)               |               |
| Secondary poisoning                              |                                                                                                      | 9,33 mg/kg    |
| 64742-65-0                                       | Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified (Note L)            |               |
| Secondary poisoning                              |                                                                                                      | 9,33 mg/kg    |
| 1190625-94-5                                     | C14-C16-C18 Alkylphenole                                                                             |               |
| Freshwater                                       |                                                                                                      | 0,1 mg/l      |
| Freshwater (intermittent releases)               |                                                                                                      | 1 mg/l        |
| Marine water                                     |                                                                                                      | 0,01 mg/l     |
| Freshwater sediment                              |                                                                                                      | 4266,16 mg/kg |
| Marine sediment                                  |                                                                                                      | 426,62 mg/kg  |
| Secondary poisoning                              |                                                                                                      | 3,3 mg/kg     |
| Micro-organisms in sewage treatment plants (STP) |                                                                                                      | 100 mg/l      |
| Soil                                             |                                                                                                      | 852,58 mg/kg  |
| 93819-94-4                                       | Zinc bis[O-(6-methylheptyl)]bis[O-(secbutyl)]bis(dithiophosphate)                                    |               |
| Freshwater                                       |                                                                                                      | 0,004 mg/l    |
| Freshwater (intermittent releases)               |                                                                                                      | 0,021 mg/l    |
| Marine water                                     |                                                                                                      | 0,0046 mg/l   |
| Freshwater sediment                              |                                                                                                      | 0,012 mg/kg   |
| Marine sediment                                  |                                                                                                      | 0,001 mg/kg   |
| Secondary poisoning                              |                                                                                                      | 10,67 mg/kg   |
| Micro-organisms in sewage treatment plants (STP) |                                                                                                      | 100 mg/l      |
| Soil                                             |                                                                                                      | 0,005 mg/kg   |

#### 8.2. Exposure controls



##### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

##### Individual protection measures, such as personal protective equipment

###### Eye/face protection

Wear eye protection/face protection. (EN 166)

###### Hand protection

Tested protective gloves must be worn (EN ISO 374)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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

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recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Thermal hazards

No information available.

#### Environmental exposure controls

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                                                                        |                           |                    |
|------------------------------------------------------------------------|---------------------------|--------------------|
| Physical state:                                                        | Liquid                    |                    |
| Colour:                                                                | light brown               |                    |
| Odour:                                                                 | characteristic            |                    |
| Odour threshold:                                                       | not determined            |                    |
|                                                                        |                           | <b>Test method</b> |
| Melting point/freezing point:                                          | not determined            |                    |
| Boiling point or initial boiling point and boiling range:              | not determined            |                    |
| Flammability:                                                          | Not readily combustible.  |                    |
| Lower explosion limits:                                                | not determined            | Literatur          |
| Upper explosion limits:                                                | not determined            | Literatur          |
| Flash point:                                                           | 240 °C                    | DIN ISO 2592       |
| Auto-ignition temperature:                                             | not determined            |                    |
| Decomposition temperature:                                             | not determined            |                    |
| pH-Value:                                                              | not applicable            |                    |
| Viscosity / kinematic:<br>(at 40 °C)                                   | ~ 63 mm <sup>2</sup> /s   | ASTM D 7042        |
| Water solubility:<br>(at 20 °C)                                        | practically insoluble     |                    |
| Solubility in other solvents<br>Soluble in hydrocarbons (mineral oil.) |                           |                    |
| Partition coefficient n-octanol/water:                                 | not determined            |                    |
| Vapour pressure:<br>(at 20 °C)                                         | <0,1 hPa                  | calculated.        |
| Density (at 15 °C):                                                    | ~ 0,853 g/cm <sup>3</sup> | ASTM D 7042        |
| Relative vapour density:                                               | not determined            |                    |
| Particle characteristics:                                              | not relevant              |                    |

### 9.2. Other information

#### Other safety characteristics

Pour point: ~ -30 °C DIN EN ISO 3016

#### Further Information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

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The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

none

**10.5. Incompatible materials**

Oxidizing agent, Reducing agent, Strong acid, Strong alkali.

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Pyrolysis products, toxic.

**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.

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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| CAS No      | Chemical name                                                                             |                   |         |               |                    |
|-------------|-------------------------------------------------------------------------------------------|-------------------|---------|---------------|--------------------|
|             | Exposure route                                                                            | Dose              | Species | Source        | Method             |
| 112-41-4    | 1-Dodecene                                                                                |                   |         |               |                    |
|             | oral                                                                                      | LD50 >5000 mg/kg  | Rat     |               |                    |
|             | dermal                                                                                    | LD50 >2000 mg/kg  | Rat     |               |                    |
|             | inhalation (4 h) dust/mist                                                                | LC50 >5 mg/l      | Rat     |               |                    |
| 157707-86-3 | Dec-1-ene, trimers, hydrogenated (international CAS 68037-01-4)                           |                   |         |               |                    |
|             | oral                                                                                      | LD50 > 5000 mg/kg | Rat     | ECHA          | OECD Guideline 401 |
| 64742-56-9  | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified (Note L) |                   |         |               |                    |
|             | oral                                                                                      | LD50 > 5000 mg/kg | Rat     | REACH Dossier | OECD 401           |
|             | dermal                                                                                    | LD50 > 5000 mg/kg | Rabbit  | REACH Dossier | OECD 402           |
|             | inhalation (4 h) dust/mist                                                                | LC50 5,53 mg/l    | Ratte   | Echa          | OECD 403           |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L)    |                   |         |               |                    |
|             | oral                                                                                      | LD50 > 5000 mg/kg | Rat     | REACH Dossier | OECD 401           |
|             | dermal                                                                                    | LD50 > 5000 mg/kg | Rabbit  | REACH Dossier | OECD 402           |
| 64742-65-0  | Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified (Note L) |                   |         |               |                    |
|             | oral                                                                                      | LD50 > 5000 mg/kg | Rat     | REACH Dossier | OECD 401           |
|             | dermal                                                                                    | LD50 > 5000 mg/kg | Rabbit  | REACH Dossier | OECD 402           |
| 64742-70-7  | Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified (Note L)        |                   |         |               |                    |
|             | oral                                                                                      | LD50 > 5000 mg/kg | Rat     | REACH Dossier | OECD 401           |
|             | dermal                                                                                    | LD50 > 5000 mg/kg | Rabbit  | REACH Dossier | OECD 402           |
| 93819-94-4  | Zinc bis[O-(6-methylheptyl)]bis[O-(secbutyl)]bis(dithiophosphate)                         |                   |         |               |                    |
|             | oral                                                                                      | LD50 2600 mg/kg   | Rat     | REACH Dossier |                    |

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

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

Contains C14-C16-C18 Alkylphenole. May produce an allergic reaction.

Classification procedure H317: Test results

**Carcinogenic/mutagenic/toxic effects for reproduction**

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.

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**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.

**Information on likely routes of exposure**

Inhalation, oral, Skin contact, Eye contact.

**Additional information on tests**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information**

No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

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

The product is not: Ecotoxic.

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| CAS No      | Chemical name                                                                             |                   |           |                                      |               |                    |
|-------------|-------------------------------------------------------------------------------------------|-------------------|-----------|--------------------------------------|---------------|--------------------|
|             | Aquatic toxicity                                                                          | Dose              | [h]   [d] | Species                              | Source        | Method             |
| 112-41-4    | 1-Dodecene                                                                                |                   |           |                                      |               |                    |
|             | Acute fish toxicity                                                                       | LC50 >1000 mg/l   | 96 h      | Oncorhynchus mykiss (Rainbow trout)  |               |                    |
|             | Acute algae toxicity                                                                      | ErC50 >1000 mg/l  | 96 h      | Selenastrum capricornutum            |               |                    |
|             | Acute crustacea toxicity                                                                  | EC50 >1000 mg/l   | 48 h      | Daphnia magna                        |               |                    |
|             | Crustacea toxicity                                                                        | NOEC 125 mg/l     | 21 d      | Daphnia magna                        |               |                    |
| 157707-86-3 | Dec-1-ene, trimers, hydrogenated (international CAS 68037-01-4)                           |                   |           |                                      |               |                    |
|             | Acute fish toxicity                                                                       | LL50 > 1000 mg/l  | 96 h      | Oncorhynchus mykiss                  | ECHA          | OECD Guideline 203 |
|             | Acute algae toxicity                                                                      | ErC50 > 1000 mg/l | 96 h      | Pseudokirchneriella subcapitata      | ECHA          | OECD Guideline 201 |
|             | Acute crustacea toxicity                                                                  | EL50 > 1000 mg/l  | 48 h      | Daphnia magna                        | ECHA          | OECD Guideline 202 |
| 64742-56-9  | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified (Note L) |                   |           |                                      |               |                    |
|             | Acute fish toxicity                                                                       | LL50 > 100 mg/l   | 96 h      | Pimephales promelas (fathead minnow) | REACH Dossier | OECD 203           |
|             | Acute algae toxicity                                                                      | ErC50 > 100 mg/l  | 72 h      | Pseudokirchneriella subcapitata      | REACH Dossier | OECD 201           |
|             | Acute crustacea toxicity                                                                  | EL50 > 10000 mg/l | 48 h      | Daphnia magna (Big water flea)       | REACH Dossier | OECD 202           |
|             | Fish toxicity                                                                             | NOEC >= 1000 mg/l | 14 d      | Oncorhynchus mykiss (Rainbow trout)  | REACH Dossier | QSAR               |
|             | Crustacea toxicity                                                                        | NOEC > 1000 mg/l  | 21 d      | Daphnia magna (Big water flea)       | REACH Dossier | OECD 211           |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L)    |                   |           |                                      |               |                    |
|             | Acute fish toxicity                                                                       | LC50 > 100 mg/l   | 96 h      | Pimephales promelas (fathead minnow) | REACH Dossier | OECD 203           |
|             | Acute algae toxicity                                                                      | ErC50 > 100 mg/l  | 72 h      | Pseudokirchneriella subcapitata      | REACH Dossier | OECD 201           |
|             | Acute crustacea toxicity                                                                  | EC50 > 10000 mg/l | 48 h      | Daphnia magna (Big water flea)       | REACH Dossier | OECD 202           |
|             | Fish toxicity                                                                             | NOEC >= 1000 mg/l | 14 d      | Oncorhynchus mykiss (Rainbow trout)  | REACH Dossier | QSAR               |
|             | Crustacea toxicity                                                                        | NOEC > 10 mg/l    | 21 d      | Daphnia magna (Big water flea)       | REACH Dossier | OECD 211           |
| 64742-65-0  | Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified (Note L) |                   |           |                                      |               |                    |
|             | Acute fish toxicity                                                                       | LL50 > 100 mg/l   | 96 h      | Pimephales promelas (fathead minnow) | REACH Dossier | OECD 203           |
|             | Acute crustacea toxicity                                                                  | EL50 > 10000 mg/l | 48 h      | Daphnia pulex (water flea)           | REACH Dossier | OECD 202           |
|             | Fish toxicity                                                                             | NOEC >= 1000 mg/l | 14 d      | Oncorhynchus mykiss (Rainbow trout)  | REACH Dossier | QSAR               |
|             | Algae toxicity                                                                            | NOEC >= 100 mg/l  | 3 d       | Pseudokirchneriella subcapitata      | REACH Dossier | OECD 201           |
| 64742-70-7  | Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil - unspecified (Note L)        |                   |           |                                      |               |                    |
|             | Acute fish toxicity                                                                       | LL50 > 100 mg/l   | 96 h      | Pimephales promelas (fathead minnow) | REACH Dossier | OECD 203           |

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|            |                                                                   |                  |          |      |                                        |               |          |
|------------|-------------------------------------------------------------------|------------------|----------|------|----------------------------------------|---------------|----------|
|            | Fish toxicity                                                     | NOEC<br>mg/l     | >= 1000  | 14 d | Oncorhynchus mykiss<br>(Rainbow trout) | REACH Dossier |          |
| 93819-94-4 | Zinc bis[O-(6-methylheptyl)]bis[O-(secbutyl)]bis(dithiophosphate) |                  |          |      |                                        |               |          |
|            | Acute fish toxicity                                               | LL50             | 4,5 mg/l | 96 h | Oncorhynchus mykiss<br>(Rainbow trout) | REACH Dossier | OECD 203 |
|            | Acute algae toxicity                                              | ErC50            | 2,1 mg/l | 72 h | Selenastrum<br>capricornutum           | REACH Dossier | OECD 201 |
|            | Acute crustacea toxicity                                          | EC50             | 5,4 mg/l | 48 h | Daphnia magna (Big<br>water flea)      | REACH Dossier | OECD 202 |
|            | Crustacea toxicity                                                | NOEC             | 0,4 mg/l | 21 d | Daphnia magna (Big<br>water flea)      | REACH Dossier | OECD 211 |
|            | Acute bacteria toxicity                                           | EC50<br>mg/l ( ) | > 10000  | 3 h  | Activated sludge                       | REACH Dossier | OECD 209 |

**12.2. Persistence and degradability**

The product has not been tested.

| CAS No     | Chemical name                                                                             |       |    |               |
|------------|-------------------------------------------------------------------------------------------|-------|----|---------------|
|            | Method                                                                                    | Value | d  | Source        |
|            | Evaluation                                                                                |       |    |               |
| 64742-56-9 | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified (Note L) |       |    |               |
|            | OECD 301B                                                                                 | 31 %  | 28 | REACH Dossier |
|            | Not easily bio-degradable (according to OECD-criteria).                                   |       |    |               |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L)    |       |    |               |
|            | OECD 301B                                                                                 | 21 %  | 28 | REACH Dossier |
|            | Not easily bio-degradable (according to OECD-criteria).                                   |       |    |               |
| 64742-65-0 | Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified (Note L) |       |    |               |
|            | OECD 301F                                                                                 | 31 %  | 28 | REACH Dossier |
|            | Not easily bio-degradable (according to OECD-criteria).                                   |       |    |               |

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

| CAS No       | Chemical name                                                     | Log Pow    |
|--------------|-------------------------------------------------------------------|------------|
| 157707-86-3  | Dec-1-ene, trimers, hydrogenated (international CAS 68037-01-4)   | > 6,5      |
| 1190625-94-5 | C14-C16-C18 Alkylphenole                                          | > 16000000 |
| 93819-94-4   | Zinc bis[O-(6-methylheptyl)]bis[O-(secbutyl)]bis(dithiophosphate) | >= 0,59    |

**12.4. Mobility in soil**

The product has not been tested.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**Further information**

Avoid release to the environment.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**

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#### Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

130206 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils; hazardous waste

#### List of Wastes Code - used product

130206 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils; hazardous waste

#### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

## SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

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**Additional information**

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

**National regulatory information**

|                                |                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Employment restrictions:       | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |
| Water hazard class (D):        | 1 - slightly hazardous to water                                                                                    |
| Skin resorption/Sensitization: | Causes allergic hypersensitivity reactions.                                                                        |

**Additional information**

Observe in addition any national regulations!

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 2,4,5,6,7,8,9,10,11,12,13,14,15,16.

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#### Abbreviations and acronyms

Asp. Tox. 1: Aspiration hazard, hazard category 1  
 Skin Irrit. 2: Skin irritation, hazard category 2  
 Eye Dam. 1: Serious eye damage, hazard category 1  
 Skin Sens. 1: Skin sensitisation, hazard category 1  
 STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2  
 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 CLP: Classification, labelling and Packaging  
 REACH: Registration, Evaluation and Authorization of Chemicals  
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
 UN: United Nations  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 ICAO: International Civil Aviation Organization  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 SVHC: Substance of Very High Concern  
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety  
 assessment, chapter R.20 (Table of terms and abbreviations).

#### Key literature references and sources for data

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety  
 assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

#### Relevant H and EUH statements (number and full text)

|      |                                                                              |
|------|------------------------------------------------------------------------------|
| H304 | May be fatal if swallowed and enters airways.                                |
| H315 | Causes skin irritation.                                                      |
| H317 | May cause an allergic skin reaction.                                         |
| H318 | Causes serious eye damage.                                                   |
| H373 | May cause damage to liver through prolonged or repeated exposure if inhaled. |
| H411 | Toxic to aquatic life with long lasting effects.                             |

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|        |                                                                      |
|--------|----------------------------------------------------------------------|
| EUH066 | Repeated exposure may cause skin dryness or cracking.                |
| EUH208 | Contains C14-C16-C18 Alkylphenole. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request.                              |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above data are intended to describe our product in terms of any safety requirements to be observed. They reflect the state of our current knowledge and experience and shall not be construed as warranted characteristics. Any warranty for accuracy and completeness shall be expressly excluded.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*