

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SUNLUB LONGLIFE 46**

Revision: 02.02.2026

Product code: 49356

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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**

Hydraulic fluids

**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.

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

|        |                                                                                                            |
|--------|------------------------------------------------------------------------------------------------------------|
| EUH208 | Contains 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid. 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**
**Relevant ingredients**

| CAS No      | Chemical name                                                                          | Quantity      |
|-------------|----------------------------------------------------------------------------------------|---------------|
|             | EC No                                                                                  |               |
|             | Index No                                                                               |               |
|             | REACH No                                                                               |               |
|             | Classification (Regulation (EC) No 1272/2008)                                          |               |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L) | 2.5 - < 5 %   |
|             | 265-157-1                                                                              |               |
|             | 649-467-00-8                                                                           |               |
|             | 01-2119484627-25                                                                       |               |
|             | Asp. Tox. 1; H304                                                                      |               |
| 268567-32-4 | 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid                         | 0.1 - < 0.3 % |
|             | 434-070-2                                                                              |               |
|             | 01-2119658068-31                                                                       |               |
|             | Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H318 H317 H412                            |               |

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               |                                                                                        |             |
| 64742-54-7 | 265-157-1                                              | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L) | 2.5 - < 5 % |
|            | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg |                                                                                        |             |

**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>).  
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.

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#### 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.

#### Further information on storage conditions

Keep away from heat.

maximum storage temperature: 80 °C

### 7.3. Specific end use(s)

Hydraulic fluids

## 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     | 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      |
| 268567-32-4              | 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid                         |                |          |                        |
| Worker DNEL, long-term   |                                                                                        | inhalation     | systemic | 4,4 mg/m <sup>3</sup>  |
| Worker DNEL, acute       |                                                                                        | inhalation     | systemic | 4,4 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   |                                                                                        | dermal         | systemic | 1,25 mg/kg bw/day      |
| Consumer DNEL, long-term |                                                                                        | inhalation     | systemic | 1,1 mg/m <sup>3</sup>  |
| Consumer DNEL, acute     |                                                                                        | inhalation     | systemic | 1,1 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term |                                                                                        | dermal         | systemic | 0,6 mg/kg bw/day       |
| Consumer DNEL, long-term |                                                                                        | oral           | systemic | 0,6 mg/kg bw/day       |

**PNEC values**

| CAS No                                           | Substance                                                                              | Value       |
|--------------------------------------------------|----------------------------------------------------------------------------------------|-------------|
| 64742-54-7                                       | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L) |             |
| Secondary poisoning                              |                                                                                        | 9,33 mg/kg  |
| 268567-32-4                                      | 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid                         |             |
| Freshwater                                       |                                                                                        | 0,036 mg/l  |
| Freshwater (intermittent releases)               |                                                                                        | 0,38 mg/l   |
| Marine water                                     |                                                                                        | 0,004 mg/l  |
| Freshwater sediment                              |                                                                                        | 1,42 mg/kg  |
| Marine sediment                                  |                                                                                        | 0,142 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                                                                                        | 10 mg/l     |
| Soil                                             |                                                                                        | 0,496 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)

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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 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:          | yellow         |
| Odour:           | characteristic |
| Odour threshold: | not determined |

|                                                           | Test method                        |
|-----------------------------------------------------------|------------------------------------|
| 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                     |
| Upper explosion limits:                                   | not determined                     |
| Flash point:                                              | > 200 °C DIN EN ISO 2592           |
| Auto-ignition temperature:                                | not determined                     |
| Decomposition temperature:                                | not determined                     |
| pH-Value:                                                 | not determined                     |
| Viscosity / kinematic:<br>(at 40 °C)                      | 43 mm <sup>2</sup> /s ASTM D 7042  |
| Water solubility:                                         | practically insoluble              |
| Solubility in other solvents<br>not determined            |                                    |
| Partition coefficient n-octanol/water:                    | not determined                     |
| Vapour pressure:                                          | not determined                     |
| Density (at 15 °C):                                       | 0,84 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: -40 °C DIN EN ISO 3016

#### Further Information

No information available.

## SECTION 10: Stability and reactivity

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**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

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) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l

| CAS No     | Chemical name                                                                          |                   |         |               |          |
|------------|----------------------------------------------------------------------------------------|-------------------|---------|---------------|----------|
|            | Exposure route                                                                         | Dose              | Species | Source        | Method   |
| 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 |

**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 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid. May produce an allergic reaction.

**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.

**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.

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

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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.

**Further information**

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

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

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

The product is not: Ecotoxic.

| CAS No      | Chemical name                                                                          |                   |           |                                      |               |               |
|-------------|----------------------------------------------------------------------------------------|-------------------|-----------|--------------------------------------|---------------|---------------|
|             | Aquatic toxicity                                                                       | Dose              | [h]   [d] | Species                              | Source        | Method        |
| 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      |
| 268567-32-4 | 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid                         |                   |           |                                      |               |               |
|             | Acute fish toxicity                                                                    | LC50 38 mg/l      | 96 h      | Danio rerio                          | ECHA          | EU Method C.1 |
|             | Acute crustacea toxicity                                                               | EC50 53 mg/l      | 48 h      | Daphnia magna                        | ECHA          | EU Method C.2 |

**12.2. Persistence and degradability**

The product has not been tested.

| CAS No     | Chemical name                                                                          |       |    |               |
|------------|----------------------------------------------------------------------------------------|-------|----|---------------|
|            | Method                                                                                 | Value | d  | Source        |
|            | Evaluation                                                                             |       |    |               |
| 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).                                |       |    |               |

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

| CAS No      | Chemical name                                                  | Log Pow |
|-------------|----------------------------------------------------------------|---------|
| 268567-32-4 | 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid | 3,9     |

**BCF**

| CAS No      | Chemical name                                                  | BCF       | Species         | Source |
|-------------|----------------------------------------------------------------|-----------|-----------------|--------|
| 268567-32-4 | 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid | > 1 - < 2 | Cyprinus carpio | ECHA   |

**12.4. Mobility in soil**

The product has not been tested.

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

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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**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **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**

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

##### **List of Wastes Code - used product**

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

##### **Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

|                                                 |                                                          |
|-------------------------------------------------|----------------------------------------------------------|
| <b><u>14.1. UN number or ID number:</u></b>     | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

#### **Inland waterways transport (ADN)**

|                                                 |                                                          |
|-------------------------------------------------|----------------------------------------------------------|
| <b><u>14.1. UN number or ID number:</u></b>     | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

#### **Marine transport (IMDG)**

|                                                 |                                                          |
|-------------------------------------------------|----------------------------------------------------------|
| <b><u>14.1. UN number or ID number:</u></b>     | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

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

|                                                 |                                                          |
|-------------------------------------------------|----------------------------------------------------------|
| <b><u>14.1. UN number or ID number:</u></b>     | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

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#### 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

Directive 2010/75/EU on industrial emissions: 0,066 % (0,552 g/l)

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

##### 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

##### 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): 2,4,5,6,7,8,9,10,11,13,15,16.

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#### Abbreviations and acronyms

Asp. Tox. 1: Aspiration hazard, hazard category 1  
 Eye Dam. 1: Serious eye damage, hazard category 1  
 Skin Sens. 1: Skin sensitisation, hazard category 1  
 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3  
 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.                                                              |
| H317   | May cause an allergic skin reaction.                                                                       |
| H318   | Causes serious eye damage.                                                                                 |
| H412   | Harmful to aquatic life with long lasting effects.                                                         |
| EUH208 | Contains 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request.                                                                    |

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SUNLUB LONGLIFE 46**

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**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.

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