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# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**ADDINOL Roller Track Lube 150** 

Product code: 766071

| SECTION 1: Identification of the s                      | substance/mixture and of the company     | y/undertaking                |
|---|--|------------------------------|
| 1.1. Product identifier<br>ADDINOL Roller Track Lube 15 | 50                                       |                              |
| 1.2. Relevant identified uses of the s                  | ubstance or mixture and uses advised aga | ainst                        |
| Use of the substance/mixture<br>Lubricant and additive. |  |                              |
| For industrial purposes only.                           |  |                              |
| 1.3. Details of the supplier of the safe                | ety data sheet                           |                              |
| Manufacturer  |  |                              |
| Company name:   | ADDINOL Lube Oil GmbH<br>Gebäude 4609    |                              |
| Street:   | Am Haupttor                              |                              |
| Place:  | D-06237 Leuna                            |                              |
| Telephone:  | +49 (0) 3461 845-0                       | Telefax:+49 (0) 3461 845-555 |
| e-mail:   | info@addinol.de                          |                              |
| Contact person:   | Application Technology                   |                              |
| Internet:   | www.addinol.de                           |                              |
| Responsible Department:                                 | ADDINOL Application Technology           |                              |
| Supplier  |  |                              |
| Company name:   | GEM OILS LIMITED                         |                              |
| Place:  | IRL-H12K298 Regaskin Co. Cavan           |                              |
| Telephone:  | +353 49 4378116                          | Telefax: +353 49 4368329     |
| e-mail:   | sales@gemoils.ie                         |                              |
| Contact person:   | GEM OILS LIMITED                         | Telephone: +353 49 4378116   |
| e-mail:   | sales@gemoils.ie                         |                              |
| Internet:   | https://gemoils.ie/                      |                              |
| 1.4. Emergency telephone                                | Healthcare Professionals: +353 (1) 809 2 | 566 (24 hour service)        |
| <u>number:</u>  |  |                              |

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

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Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16. This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

# 2.2. Label elements

## Regulation (EC) No 1272/2008

# Hazard statements

H412

P273

P501

Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

Avoid release to the environment.

Dispose of contents/container to an appropriate recycling or disposal facility.

#### Additional advice on labelling

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

# 2.3. Other hazards

according to Regulation (EC) No 1907/2006

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Prolonged/repetitive skin contact may cause skin defattening or dermatitis. Spilled product must not leak into the ground. Do not allow uncontrolled leakage of product into the environment.

# **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

## **Chemical characterization**

Mixture of synthetic base components and additives.

#### Hazardous components

| CAS No     | Chemical name  |                         |                                       | Quantity      |
|------------|--|-------------------------|---------------------------------------|---------------|
|            | EC No  | Index No                | REACH No                              |               |
|            | Classification (Regulation (EC) No                                     | 1272/2008)              | · ·                                   |               |
|            | Alkyl Naphthalene  |                         |                                       | 2.5 - < 5 %   |
|            |  |                         | 01-2120012616-65                      |               |
|            | Aquatic Chronic 4; H413  |                         | · · · · · ·                           |               |
| 84961-70-6 | Benzene, mono-C10-13-alkyl deriv                                       | s., distn. residues     |                                       | 1 - < 2.5 %   |
|            | 284-660-7  |                         | 01-2119485843-26                      |               |
|            | Asp. Tox. 1; H304  |                         | · · · · · · · · · · · · · · · · · · · |               |
| 68411-46-1 | alkylated diphenylamine  |                         |                                       | 1 - < 2.5 %   |
|            | 270-128-1  |                         | 01-2119491299-23                      |               |
|            | Repr. 2, Aquatic Chronic 3; H361f I                                    | H412                    |                                       |               |
| 1330-78-5  | Reaction mass of 3-Methylphenyl c<br>di-3-methylphenyl Phosphate and t |                         |                                       | 0.5 - < 1 %   |
|            | 809-930-9  |                         | 01-2119531335-46                      |               |
|            | Repr. 2, Aquatic Acute 1, Aquatic C                                    | Chronic 1; H361f H400 H | 410                                   |               |
| 115-86-6   | Triphenyl phosphate  |                         |                                       | 0.3 - < 0.5 % |
|            | 204-112-2  |                         |                                       |               |
|            | Aquatic Acute 1, Aquatic Chronic 1                                     | ; H400 H410             |                                       |               |

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

| Specific Cor | nc. Limits, M-f | actors and ATE   |               |
|--------------|-----------------|--|---------------|
| CAS No       | EC No           | Chemical name  | Quantity      |
|              | Specific Con    | c. Limits, M-factors and ATE   |               |
| 84961-70-6   | 284-660-7       | Benzene, mono-C10-13-alkyl derivs., distn. residues  | 1 - < 2.5 %   |
|              | dermal: LD5     | 0 = > 4300 mg/kg; oral: LD50 = > 2000 mg/kg  |               |
| 68411-46-1   | 270-128-1       | alkylated diphenylamine  | 1 - < 2.5 %   |
|              | dermal: LD5     | 0 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg  |               |
| 1330-78-5    | 809-930-9       | Reaction mass of 3-Methylphenyl di-4-methylphenyl Phosphate and 4-Methylphenyl di-3-methylphenyl Phosphate and tris(3-methylphenyl)phosphate | 0.5 - < 1 %   |
|              |                 | > 20000 mg/kg   Aquatic Acute 1; H400: M=1<br>nic 1; H410: M=1   |               |
| 115-86-6     | 204-112-2       | Triphenyl phosphate  | 0.3 - < 0.5 % |
|              | dermal: LD5     | 0 = > 10000 mg/kg; oral: LD50 = > 20000 mg/kg  |               |

### **Further Information**

DMSO-Extrakt < 3 %, IP 346.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

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### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

## **General information**

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

#### 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

Foam. Extinguishing powder. Carbon dioxide (CO2). Atomized water.

#### Unsuitable extinguishing media

High power water jet.

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

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2). Sulfur oxides. Phosphorus oxides. Nitrogen oxides (NOx). carbon black

#### 5.3. Advice for firefighters

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

## Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

#### **SECTION 6: Accidental release measures**

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

#### General advice

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with skin, eye and clothing. Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

#### 6.2. Environmental precautions

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

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

### Other information

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. 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 Section 12: Ecological Information (non-mandatory) Disposal: see section 13

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes.

# Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

## Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

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

#### Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Provide adequate ventilation as well as local exhaustion at critical locations. Keep/Store only in original container.

### Hints on joint storage

Keep away from food, drink and animal feedingstuffs. Keep away from: Oxidizing agent

### Further information on storage conditions

Protect against: UV-radiation/sunlight. frost. heat.

Recommended storage temperature: 5 - 40°C

## 7.3. Specific end use(s)

Further information: see technical data sheet.

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## **Occupational exposure limits**

| CAS No   | Substance           | ppm | mg/m³ | fib/cm <sup>3</sup> | Category  | Origin |
|----------|---------------------|-----|-------|---------------------|-----------|--------|
| 115-86-6 | Triphenyl phosphate | -   | 3     |                     | TWA (8 h) |        |

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# **DNEL/DMEL** values

| CAS No       | Substance   |                        |                      |                        |
|--------------|---|------------------------|----------------------|------------------------|
| DNEL type    |   | Exposure route         | Effect               | Value                  |
| 84961-70-6   | Benzene, mono-C10-13-alkyl derivs., distn. residues   |                        |                      |                        |
| Worker DNEL, | long-term   | inhalation             | systemic             | 2,2 mg/m³              |
| Worker DNEL, | long-term   | dermal                 | systemic             | 3,15 mg/kg<br>bw/day   |
| Consumer DN  | EL, long-term   | dermal                 | systemic             | 1,13 mg/kg<br>bw/day   |
| Consumer DN  | EL, long-term   | oral                   | systemic             | 0,225 mg/kg<br>bw/day  |
| 68411-46-1   | alkylated diphenylamine   |                        |                      |                        |
| Worker DNEL, | long-term   | inhalation             | systemic             | 0,6 mg/m³              |
| Worker DNEL, | long-term   | dermal                 | systemic             | 0,08 mg/kg<br>bw/day   |
| Consumer DN  | EL, long-term   | inhalation             | systemic             | 0,14 mg/m <sup>3</sup> |
| Consumer DN  | EL, long-term   | dermal                 | systemic             | 0,04 mg/kg<br>bw/day   |
| Consumer DN  | EL, long-term   | oral                   | systemic             | 0,04 mg/kg<br>bw/day   |
| 1330-78-5    | Reaction mass of 3-Methylphenyl di-4-methylphenyl Ph<br>Phosphate and tris(3-methylphenyl)phosphate | osphate and 4-Methylpl | henyl di-3-methylphe | enyl                   |
| Worker DNEL, | long-term   | inhalation             | systemic             | 0,18 mg/m³             |
| Worker DNEL, | long-term   | dermal                 | systemic             | 0,41 mg/kg<br>bw/day   |
| Consumer DN  | EL, long-term   | inhalation             | systemic             | 0,03 mg/m <sup>3</sup> |
| Consumer DN  | EL, long-term   | dermal                 | systemic             | 0,15 mg/kg<br>bw/day   |
| Consumer DN  | EL, long-term   | oral                   | systemic             | 0,02 mg/kg<br>bw/day   |
| 115-86-6     | Triphenyl phosphate   |                        |                      |                        |
| Worker DNEL, | long-term   | inhalation             | systemic             | 5,2 mg/m³              |
| Worker DNEL, | long-term   | dermal                 | systemic             | 5,55 mg/kg<br>bw/day   |
| Consumer DN  | EL, long-term   | inhalation             | systemic             | 0,9 mg/m³              |
| Consumer DN  | EL, long-term   | dermal                 | systemic             | 1,98 mg/kg<br>bw/day   |
| Consumer DN  | EL, long-term   | oral                   | systemic             | 0,5 mg/kg bw/day       |
|              |   |                        |                      |                        |

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#### **PNEC** values

| CAS No        | Substance  |                        |  |  |  |
|---------------|--|------------------------|--|--|--|
| Environmenta  | al compartment   | Value                  |  |  |  |
| 84961-70-6    | Benzene, mono-C10-13-alkyl derivs., distn. residues  |                        |  |  |  |
| Freshwater    |  | 0,001 mg/l             |  |  |  |
| Freshwater (i | ntermittent releases)  | 0,001 mg/l             |  |  |  |
| Marine water  | farine water   |                        |  |  |  |
| Freshwater se | ediment  | 16,5 mg/kg             |  |  |  |
| Marine sedim  | nent   | 1,65 mg/kg             |  |  |  |
| Micro-organis | sms in sewage treatment plants (STP)   | 2 mg/l                 |  |  |  |
| Soil          |  | 3,7 mg/kg              |  |  |  |
| 68411-46-1    | alkylated diphenylamine  |                        |  |  |  |
| Freshwater    |  | 0,034 mg/l             |  |  |  |
| Freshwater (i | ntermittent releases)  | 0,51 mg/l              |  |  |  |
| Marine water  |  | 0,003 mg/l             |  |  |  |
| Freshwater se | ediment  | 0,446 mg/kg            |  |  |  |
| Marine sedim  | nent   | 0,045 mg/kg            |  |  |  |
| Micro-organis | Micro-organisms in sewage treatment plants (STP)   |                        |  |  |  |
| Soil          |  | 1,76 mg/kg             |  |  |  |
| 1330-78-5     | Reaction mass of 3-Methylphenyl di-4-methylphenyl Phosphate and 4-Methylphenyl Phosphate and tris(3-methylphenyl)phosphate | enyl di-3-methylphenyl |  |  |  |
| Freshwater    |  | 0,001 mg/l             |  |  |  |
| Freshwater (i | ntermittent releases)  | 0,001 mg/l             |  |  |  |
| Marine water  |  | 0 mg/l                 |  |  |  |
| Freshwater se | ediment  | 2,05 mg/kg             |  |  |  |
| Marine sedim  | nent   | 0,205 mg/kg            |  |  |  |
| Secondary po  | pisoning   | 0,65 mg/kg             |  |  |  |
| Micro-organis | sms in sewage treatment plants (STP)   | 100 mg/l               |  |  |  |
| Soil          |  | 1,01 mg/kg             |  |  |  |
| 115-86-6      | Triphenyl phosphate  |                        |  |  |  |
| Freshwater    |  | 0,004 mg/l             |  |  |  |
| Freshwater (i | ntermittent releases)  | 0,003 mg/l             |  |  |  |
| Marine water  |  | 0 mg/l                 |  |  |  |
| Freshwater se | ediment  | 1,103 mg/kg            |  |  |  |
| Marine sedim  | nent   | 0,11 mg/kg             |  |  |  |
| Secondary po  | pisoning   | 16,667 mg/kg           |  |  |  |
| Micro-organis | sms in sewage treatment plants (STP)   | 5 mg/l                 |  |  |  |
| Soil          |  | 0,218 mg/kg            |  |  |  |

# Additional advice on limit values

Recommended limit value for oil mist TWA: 5 mg/m<sup>3</sup> STEL: 10 mg/m<sup>3</sup>

Does not contain substances above concentration limits fixing an occupational exposure limit.

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## 8.2. Exposure controls





#### Appropriate engineering controls

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

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

### Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

#### Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

#### Skin protection

Physical state:

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

## **Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Cosaint riospráide le scagaire i gcoinne gás orgánach agus gaile cineál A - fiuchphointe> 65 ° C: A1: <1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

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## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

| Colour:                                    | yellow         |                     |                 |
|--|----------------|---------------------|-----------------|
| Odour:                                     | characteristic |                     |                 |
| Odour threshold:                           | not determined |                     |                 |
|  |                |                     | Test method     |
| Melting point/freezing point:              |                | No data available   |                 |
| Boiling point or initial boiling point and |                | No data available   |                 |
| boiling range:                             |                |                     |                 |
| Flammability:                              |                | No data available   |                 |
| Lower explosion limits:                    |                | No data available   |                 |
| Upper explosion limits:                    |                | No data available   |                 |
| Flash point:                               |                | 290 °C              | DIN EN ISO 2592 |
| Auto-ignition temperature:                 |                | No data available   |                 |
| Decomposition temperature:                 |                | No data available   |                 |
| pH-Value:                                  |                | not applicable      |                 |
| Viscosity / kinematic:<br>(at 40 °C)       |                | 165 mm²/s           | ASTM D 7042     |
| Water solubility:                          |                | virtually insoluble |                 |
|  |                |                     |                 |

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| ADDINOL Roller Track Lube 150                    |                      |              |  |  |  |  |
|--|----------------------|--------------|--|--|--|--|
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| Solubility in other solvents                     |                      |              |  |  |  |  |
| No data available                                |                      |              |  |  |  |  |
| Partition coefficient n-octanol/water:           | No data available    |              |  |  |  |  |
| Vapour pressure:                                 | No data available    |              |  |  |  |  |
| Density (at 15 °C):                              | 0,970 g/cm³          | DIN 51757    |  |  |  |  |
| Relative vapour density:                         | No data available    |              |  |  |  |  |
| 9.2. Other information                           |                      |              |  |  |  |  |
| Information with regard to physical hazard class | ses                  |              |  |  |  |  |
| Explosive properties                             |                      |              |  |  |  |  |
| No data available                                |                      |              |  |  |  |  |
| Self-ignition temperature                        |                      |              |  |  |  |  |
| Solid:   | No data available    |              |  |  |  |  |
| Gas:   | No data available    |              |  |  |  |  |
| Oxidizing properties                             |                      |              |  |  |  |  |
| No data available                                |                      |              |  |  |  |  |
| Other safety characteristics                     |                      |              |  |  |  |  |
| Evaporation rate:                                | No data available    |              |  |  |  |  |
| Pour point:                                      | -30 °C               | ASTM D 7346  |  |  |  |  |
| SECTION 10: Stability and reactivity             |                      |              |  |  |  |  |

## 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

# 10.2. Chemical stability

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

## 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

#### 10.5. Incompatible materials

Reacts with : Oxidising agent, strong. Acid.

# 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2). Sulfur oxides. Nitrogen oxides (NOx). Phosphorus oxides. carbon black. No known hazardous decomposition products.

# **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. Mixture not tested.

# ATEmix calculated

ATE (oral) 135481,1 mg/kg; ATE (dermal) 76687,1 mg/kg

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| CAS No     | Chemical name                                   |                |                 |                   |                               |  |
|------------|---|----------------|-----------------|-------------------|-------------------------------|--|
|            | Exposure route                                  | Dose           |                 | Species           | Source                        | Method   |
| 84961-70-6 | Benzene, mono-C10-1                             | 3-alkyl derivs | ., distn. resid | ues               |                               |  |
|            | oral  | LD50<br>mg/kg  | > 2000          | Rat               | Study report (1992)           | OECD Guideline 401                             |
|            | dermal  | LD50<br>mg/kg  | > 4300          | Rat               | Study report (1991)           | other: Sema. 1988.<br>Manual of tests for a    |
| 68411-46-1 | alkylated diphenylamin                          | е              |                 |                   |                               |  |
|            | oral  | LD50<br>mg/kg  | > 5000          | Rat               | Study report (1982)           | OECD Guideline 401                             |
|            | dermal  | LD50<br>mg/kg  | > 2000          | Rat               | Study report (1988)           | OECD Guideline 402                             |
| 1330-78-5  | Reaction mass of 3-Me<br>and tris(3-methylpheny |                | -4-methylphe    | nyl Phosphate and | 4-Methylphenyl di-3-methylphe | nyl Phosphate                                  |
|            | oral  | LD50<br>mg/kg  | > 20000         | Rat               | Study report (1976)           | other: Standard<br>Federal Hazardous<br>Substa |
| 115-86-6   | Triphenyl phosphate                             | -              |                 |                   |                               |  |
|            | oral  | LD50<br>mg/kg  | > 20000         | Rat               | Study report (1976)           | OECD Guideline 401                             |
|            | dermal  | LD50<br>mg/kg  | > 10000         | Rabbit            | Study report (1976)           | OECD Guideline 402                             |

#### Irritation and corrosivity

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

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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. Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

#### Aspiration hazard

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

# 11.2. Information on other hazards

Endocrine disrupting properties

# not applicable

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects. No data available

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| CAS No     | Chemical name   |                |               |           |                                     |   |  |
|------------|---|----------------|---------------|-----------|-------------------------------------|---|--|
|            | Aquatic toxicity                                      | Dose           |               | [h]   [d] | Species                             | Source  | Method   |
| 84961-70-6 | Benzene, mono-C10-13-a                                | ılkyl derivs., | distn. residu | es        |                                     |   |  |
|            | Acute fish toxicity                                   | LC50<br>mg/l   | > 10000       | 96 h      |                                     |   |  |
|            | Acute crustacea toxicity                              | EC50<br>mg/l   | > 1,4         | 48 h      | Daphnia magna                       | REACh<br>Registration<br>Dossier                  | OECD Guideline<br>202                          |
|            | Crustacea toxicity                                    | NOEC           | 10 mg/l       | 21 d      | Daphnia magna                       | REACh<br>Registration<br>Dossier                  | OECD Guideline<br>211                          |
| 68411-46-1 | alkylated diphenylamine                               |                |               |           |                                     |   |  |
|            | Acute fish toxicity                                   | LC50<br>mg/l   | > 100         | 96 h      | Danio rerio                         | Study report<br>(1988)                            | OECD Guideline<br>203                          |
|            | Acute algae toxicity                                  | ErC50<br>mg/l  | > 100         | 72 h      | Desmodesmus<br>subspicatus          | Study report<br>(2006)                            | OECD Guideline<br>201                          |
|            | Acute crustacea toxicity                              | EC50           | 51 mg/l       | 48 h      | Daphnia magna                       | Study report<br>(2004)                            | OECD Guideline<br>202                          |
| 1330-78-5  | Reaction mass of 3-Methy<br>and tris(3-methylphenyl)p |                | 1-methylphen  | yl Phosp  | hate and 4-Methylpheny              | l di-3-methylphenyl Ph                            | nosphate                                       |
|            | Acute fish toxicity                                   | LC50           | 0,6 mg/l      | 96 h      | rainbow trout and<br>fathead minnow | Study report<br>(1979)                            | Five nominal<br>concentrations of<br>sample; a |
|            | Acute crustacea toxicity                              | EC50<br>mg/l   | 0,146         | 48 h      | Daphnia magna                       | Study report<br>(2005)                            | OECD Guideline<br>202                          |
|            | Fish toxicity   | NOEC<br>mg/l   | 0,01          | 28 d      | Jordanella floridae                 | Rijksinstituut voor<br>Volksgezondheid<br>en M    | Test was carried out based on the nation       |
|            | Crustacea toxicity                                    | NOEC           | 0,1 mg/l      | 21 d      | Daphnia magna                       | Rijksinstituut voor<br>Volksgezondheid<br>en M    | other: NEN 6502                                |
|            | Acute bacteria toxicity                               | (EC50<br>mg/l) | > 1000        | 3 h       | activated sludge,<br>domestic       | Study report<br>(2010)                            | OECD Guideline<br>209                          |
| 115-86-6   | Triphenyl phosphate                                   |                |               |           |                                     |   |  |
|            | Acute fish toxicity                                   | LC50           | 0,4 mg/l      | 96 h      | Oncorhynchus mykiss                 | REACh<br>Registration<br>Dossier                  | other: see below                               |
|            | Acute algae toxicity                                  | ErC50<br>mg/l  | 2,45          | 72 h      | Pseudokirchneriella<br>subcapitata  | Study report<br>(2000)                            | OECD Guideline<br>201                          |
|            | Acute crustacea toxicity                              | EC50           | 1 mg/l        | 48 h      | Daphnia magna                       | Aquatic<br>Toxicology and<br>Hazard<br>Assessment | other: see below                               |
|            | Fish toxicity   | NOEC<br>mg/l   | >= 0,001      | 90 d      | Oncorhynchus mykiss                 | Aquatic<br>Toxicology and<br>Hazard<br>Assessment | Flow through<br>system with 90d<br>exposure pe |
|            | Crustacea toxicity                                    | NOEC<br>mg/l   | 0,254         | 21 d      | Daphnia magna                       | REACh<br>Registration<br>Dossier                  | OECD Guideline<br>211                          |

# 12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

## 12.3. Bioaccumulative potential

according to Regulation (EC) No 1907/2006

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#### No data available

### Partition coefficient n-octanol/water

| CAS No     | Chemical name  | Log Pow    |
|------------|--|------------|
| 84961-70-6 | Benzene, mono-C10-13-alkyl derivs., distn. residues  | 9,9        |
| 68411-46-1 | alkylated diphenylamine  | 6,66       |
| 1330-78-5  | Reaction mass of 3-Methylphenyl di-4-methylphenyl Phosphate and 4-Methylphenyl di-3-methylphenyl Phosphate and tris(3-methylphenyl)phosphate | ca. 860000 |
| 115-86-6   | Triphenyl phosphate  | 4,63       |

BCF

| CAS No     | Chemical name  | BCF | Species               | Source               |
|------------|--|-----|-----------------------|----------------------|
| 84961-70-6 | Benzene, mono-C10-13-alkyl derivs., distn. residues  | 35  |                       | Environmental Toxico |
| 68411-46-1 | alkylated diphenylamine  | 411 | Cyprinus carpio       | Study report (2000)  |
| 1330-78-5  | Reaction mass of 3-Methylphenyl<br>di-4-methylphenyl Phosphate and<br>4-Methylphenyl di-3-methylphenyl<br>Phosphate and<br>tris(3-methylphenyl)phosphate | 77  | Not applicable - QSAR | QSAR                 |
| 115-86-6   | Triphenyl phosphate  | 144 | Oryzias latipes       | REACh Registration D |

#### 12.4. Mobility in soil

Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants.

# 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 data available

#### **Further information**

Do not allow uncontrolled leakage of product into the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

### **Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

## 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

# Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

| 14.1. UN number or ID number:     |  |
|-----------------------------------|--|
| 14.2. UN proper shipping name:    |  |
| 14.3. Transport hazard class(es): |  |

according to Regulation (EC) No 1907/2006

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| 14.4. Packing group:   | -  |               |
| Inland waterways transport (ADN)   |  |               |
| 14.1. UN number or ID number:  | <u>-</u>   |               |
| 14.2. UN proper shipping name:   | -  |               |
| 14.3. Transport hazard class(es):  | -  |               |
| 14.4. Packing group:   | -  |               |
| Marine transport (IMDG)  |  |               |
| 14.1. UN number or ID number:  | -  |               |
| 14.2. UN proper shipping name:   | -  |               |
| 14.3. Transport hazard class(es):  | -  |               |
| 14.4. Packing group:   | -  |               |
| Air transport (ICAO-TI/IATA-DGR)   |  |               |
| 14.1. UN number or ID number:  | -  |               |
| 14.2. UN proper shipping name:   | -  |               |
| 14.3. Transport hazard class(es):  | -  |               |
| 14.4. Packing group:   | -  |               |
| 14.5. Environmental hazards  |  |               |
| ENVIRONMENTALLY HAZARDOUS:   | No   |               |
| 14.6. Special precautions for user<br>Unless specified otherwise, general in<br>14.7. Maritime transport in bulk according<br>not applicable | measures for safe transport must be followed.<br>I <b>to IMO instruments</b> |               |
| Other applicable information   |  |               |
| No dangerous good in sense of these  | e transport regulations.   |               |
| SECTION 15: Regulatory information   |  |               |
| SECTION 10. Regulatory information   |  |               |
| 15.1. Safety, health and environmental rec   | gulations/legislation specific for the substance or mixture                  |               |
| EU regulatory information<br>Restrictions on use (REACH, annex XVI<br>Entry 3, Entry 75  | I):  |               |
| National regulatory information  |  |               |
| Water hazard class (D):  | 2 - obviously hazardous to water   |               |
| 15.2. Chemical safety assessment   |  |               |
|  | bstances in this mixture were not carried out.                               |               |
| SECTION 16: Other information  |  |               |
| Changes  |  |               |

# Changes

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

## Abbreviations and acronyms

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

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN -European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ASTM - American Society for the Testing of Materials; ATE - Acute Toxicity Estimates; bw - Body weight; CAO -Cargo Aircraft Only; CAS - Chemical Abstracts Service; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL - Derived No-Effect Level; DOT -Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN -European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air

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Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT -Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ -Reportable Quantity; SADT - Self- Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3; H412 | Calculation method       |
|                         | •                        |

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

| H304  | May be fatal if swallowed and enters airways.           |
|-------|---|
| H361f | Suspected of damaging fertility.                        |
| H400  | Very toxic to aquatic life.                             |
| H410  | Very toxic to aquatic life with long lasting effects.   |
| H412  | Harmful to aquatic life with long lasting effects.      |
| H413  | May cause long lasting harmful effects to aquatic life. |
|       |   |

#### **Further Information**

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

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

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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