

**Safety Data Sheet****ADDINOL Super Tractor MU 1045**

Revision date: 07/08/2025

Product code: 722025

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**1. Identification****Product identifier**

ADDINOL Super Tractor MU 1045

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Gearbox oil.

**Details of the supplier of the safety data sheet****Manufacturer**

|                         |                                |                               |
|-------------------------|--------------------------------|-------------------------------|
| Company name:           | ADDINOL Lube Oil GmbH          |                               |
|                         | 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: | ADDINOL North America Inc.                |
| Street:       | 80 Pine Street, 24th Floor - NY, NY 10005 |
| E-mail:       | jill.frommert@addinol.de                  |

**Emergency phone number:** +1 716 344 9074 available Mon - Fri, 8:00 am to 4:30 pm EST**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No 1272/2008**

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

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

**Label elements****Regulation (EC) No 1272/2008****Hazard statements**

H412 Harmful to aquatic life with long lasting effects

**Precautionary statements**

|      |                                                                 |
|------|-----------------------------------------------------------------|
| P273 | Avoid release to the environment.                               |
| P501 | Dispose of contents/container to industrial incineration plant. |

**Special labelling of certain mixtures**

|        |                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------|
| EUH208 | Contains 2-tetradecyloxirane, reaction products with boric acid. May produce an allergic reaction. |
|--------|----------------------------------------------------------------------------------------------------|

**Additional advice on labelling**

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

**Hazards not otherwise classified**

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

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## 3. Composition/information on ingredients

**Mixtures****Relevant ingredients**

| CAS No      | Components                                                                                                              |              |                  | Quantity      |
|-------------|-------------------------------------------------------------------------------------------------------------------------|--------------|------------------|---------------|
|             | EC No                                                                                                                   | Index No     | REACH No         |               |
|             | Classification (Regulation (EC) No 1272/2008)                                                                           |              |                  |               |
| 64741-88-4  | Distillates (petroleum), solvent-refined heavy paraffinic                                                               |              |                  | 40 - < 60 %   |
|             | 265-090-8                                                                                                               |              | 01-2119488706-23 |               |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic                                                                  |              |                  | 20 - < 40 %   |
|             | 265-157-1                                                                                                               |              | 01-2119484627-25 |               |
| 4259-15-8   | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)                                                                    |              |                  | 1 - < 2.5 %   |
|             | 224-235-5                                                                                                               |              | 01-2119493635-27 |               |
|             | Eye Dam. 1, Aquatic Chronic 2; H318 H411                                                                                |              |                  |               |
|             | 2-tetradecyloxirane, reaction products with boric acid                                                                  |              |                  | 0.3 - < 0.5 % |
|             | 701-392-2                                                                                                               |              | 01-2119976364-28 |               |
|             | Skin Sens. 1B; H317                                                                                                     |              |                  |               |
| 101-02-0    | Triphenyl phosphite                                                                                                     |              |                  | < 0.1 %       |
|             | 202-908-4                                                                                                               | 015-105-00-7 |                  |               |
|             | Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H315 H319 H373 H400 H410 |              |                  |               |
| 121158-58-5 | Phenol, dodecyl-, branched                                                                                              |              |                  | < 0.1 %       |
|             | 310-154-3                                                                                                               | 604-092-00-9 | 01-2119513207-49 |               |
|             | Repr. 1B, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H360F H314 H318 H400 H410                      |              |                  |               |

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

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

| CAS No      | EC No     | Components                                                                                                           | Quantity      |
|-------------|-----------|----------------------------------------------------------------------------------------------------------------------|---------------|
|             |           | Specific Conc. Limits, M-factors and ATE                                                                             |               |
| 64741-88-4  | 265-090-8 | Distillates (petroleum), solvent-refined heavy paraffinic                                                            | 40 - < 60 %   |
|             |           | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg                                                               |               |
| 64742-54-7  | 265-157-1 | Distillates (petroleum), hydrotreated heavy paraffinic                                                               | 20 - < 40 %   |
|             |           | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg                                                               |               |
| 4259-15-8   | 224-235-5 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)                                                                 | 1 - < 2.5 %   |
|             |           | dermal: LD50 = > 5000 mg/kg; oral: LD50 = 3100 mg/kg Eye Dam. 1; H318: >= 50 - 100 Eye Irrit. 2; H319: >= 2,5 - < 50 |               |
|             | 701-392-2 | 2-tetradecyloxirane, reaction products with boric acid                                                               | 0.3 - < 0.5 % |
|             |           | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 16000 mg/kg                                                              |               |
| 101-02-0    | 202-908-4 | Triphenyl phosphite                                                                                                  | < 0.1 %       |
|             |           | oral: ATE = 500 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100                                 |               |
| 121158-58-5 | 310-154-3 | Phenol, dodecyl-, branched                                                                                           | < 0.1 %       |
|             |           | dermal: LD50 = ca. 15000 mg/kg; oral: LD50 = 2100 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10    |               |

**Further Information**

DMSO-Extract &lt; 3 %; IP 346. Classification system: The classification corresponds to the current US lists and

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is completed by information from specialist literature and company information.

#### 4. First-aid measures

##### 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, consult a physician.

###### **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.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

#### 5. Fire-fighting measures

##### Extinguishing media

###### **Suitable extinguishing media**

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

###### **Unsuitable extinguishing media**

Full water jet

##### Specific hazards arising from the chemical

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Sulphur oxides Phosphorus oxides. Nitrogen oxides (NO<sub>x</sub>). carbon black.

##### Special protective equipment and precautions for fire-fighters

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.

#### 6. Accidental release measures

##### 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 vapors/dusts/aerosols. Avoid contact with skin, eyes and clothes.

##### 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).

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

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### 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.

### Reference to other sections

Safe handling: see section 7  
Personal protection equipment (PPE): see section 8  
Section 12: Ecological Information (non-mandatory)  
Disposal: see section 13

## 7. Handling and storage

### 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.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Keep/Store only in original container.

#### Hints on joint storage

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

#### Further information on storage conditions

Recommended storage temperature: 5 - 40°C  
Protect against: Heat. UV-radiation/sunlight. Frost.

### Specific end use(s)

Further information: see technical data sheet.

## 8. Exposure controls/personal protection

### Control parameters

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## DNEL/DMEL values

| CAS No                   | Substance                                                 | Exposure route | Effect                  | Value |
|--------------------------|-----------------------------------------------------------|----------------|-------------------------|-------|
| 64741-88-4               | Distillates (petroleum), solvent-refined heavy paraffinic |                |                         |       |
| 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       |       |
| 64742-54-7               | Distillates (petroleum), hydrotreated heavy paraffinic    |                |                         |       |
| 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       |       |
| 4259-15-8                | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)      |                |                         |       |
| Worker DNEL, long-term   | dermal                                                    | systemic       | 9,6 mg/kg bw/day        |       |
| Consumer DNEL, long-term | inhalation                                                | systemic       | 1,67 mg/m <sup>3</sup>  |       |
| Consumer DNEL, long-term | dermal                                                    | systemic       | 4,8 mg/kg bw/day        |       |
| Consumer DNEL, long-term | oral                                                      | systemic       | 0,19 mg/kg bw/day       |       |
| Worker DNEL, long-term   | inhalation                                                | systemic       | 6,6 mg/m <sup>3</sup>   |       |
|                          | 2-tetradecyloxirane, reaction products with boric acid    |                |                         |       |
| Worker DNEL, long-term   | dermal                                                    | local          | 0,09 mg/cm <sup>2</sup> |       |
| Consumer DNEL, long-term | dermal                                                    | local          | 4,68 mg/cm <sup>2</sup> |       |
| 101-02-0                 | Triphenyl phosphite                                       |                |                         |       |
| Worker DNEL, long-term   | inhalation                                                | systemic       | 0,53 mg/m <sup>3</sup>  |       |
| Worker DNEL, long-term   | dermal                                                    | systemic       | 0,15 mg/kg bw/day       |       |
| Consumer DNEL, long-term | inhalation                                                | systemic       | 0,53 mg/m <sup>3</sup>  |       |
| Consumer DNEL, long-term | dermal                                                    | systemic       | 0,15 mg/kg bw/day       |       |
| Consumer DNEL, long-term | oral                                                      | systemic       | 0,075 mg/kg bw/day      |       |
| 121158-58-5              | Phenol, dodecyl-, branched                                |                |                         |       |
| Worker DNEL, acute       | inhalation                                                | systemic       | 44,18 mg/m <sup>3</sup> |       |
| Worker DNEL, long-term   | dermal                                                    | systemic       | 0,25 mg/kg bw/day       |       |
| Worker DNEL, acute       | dermal                                                    | systemic       | 166 mg/kg bw/day        |       |
| Consumer DNEL, long-term | inhalation                                                | systemic       | 0,79 mg/m <sup>3</sup>  |       |
| Consumer DNEL, acute     | inhalation                                                | systemic       | 13,26 mg/m <sup>3</sup> |       |
| Consumer DNEL, long-term | dermal                                                    | systemic       | 0,075 mg/kg bw/day      |       |

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|                          |        |          |                    |
|--------------------------|--------|----------|--------------------|
| Consumer DNEL, acute     | dermal | systemic | 50 mg/kg bw/day    |
| Consumer DNEL, long-term | oral   | systemic | 0,075 mg/kg bw/day |
| Consumer DNEL, acute     | oral   | systemic | 1,26 mg/kg bw/day  |

## PNEC values

| CAS No                                           | Substance                                                 |               |
|--------------------------------------------------|-----------------------------------------------------------|---------------|
| Environmental compartment                        |                                                           | Value         |
| 64741-88-4                                       | Distillates (petroleum), solvent-refined heavy paraffinic |               |
| Secondary poisoning                              |                                                           | 9,33 mg/kg    |
| 64742-54-7                                       | Distillates (petroleum), hydrotreated heavy paraffinic    |               |
| Secondary poisoning                              |                                                           | 9,33 mg/kg    |
| 4259-15-8                                        | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)      |               |
| Freshwater                                       |                                                           | 0,004 mg/l    |
| Freshwater (intermittent releases)               |                                                           | 0,044 mg/l    |
| Marine water                                     |                                                           | 0,0046 mg/l   |
| Freshwater sediment                              |                                                           | 0,322 mg/kg   |
| Marine sediment                                  |                                                           | 0,032 mg/kg   |
| Secondary poisoning                              |                                                           | 8,33 mg/kg    |
| Micro-organisms in sewage treatment plants (STP) |                                                           | 3,8 mg/l      |
| Soil                                             |                                                           | 0,062 mg/kg   |
|                                                  | 2-tetradecyloxirane, reaction products with boric acid    |               |
| Freshwater                                       |                                                           | 1 mg/l        |
| Freshwater (intermittent releases)               |                                                           | 1 mg/l        |
| Marine water                                     |                                                           | 0,1 mg/l      |
| Freshwater sediment                              |                                                           | 42700 mg/kg   |
| Marine sediment                                  |                                                           | 4270 mg/kg    |
| Micro-organisms in sewage treatment plants (STP) |                                                           | 100 mg/l      |
| Soil                                             |                                                           | 8540 mg/kg    |
| 121158-58-5                                      | Phenol, dodecyl-, branched                                |               |
| Freshwater                                       |                                                           | 0,000074 mg/l |
| Freshwater (intermittent releases)               |                                                           | 0,00037 mg/l  |
| Marine water                                     |                                                           | 0,000007 mg/l |
| Freshwater sediment                              |                                                           | 0,226 mg/kg   |
| Marine sediment                                  |                                                           | 0,027 mg/kg   |
| Secondary poisoning                              |                                                           | 4 mg/kg       |
| Micro-organisms in sewage treatment plants (STP) |                                                           | 100 mg/l      |
| Soil                                             |                                                           | 0,118 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>

The product does not contain any relevant quantities of substances with legally established exposure limitation.

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The product does not contain any relevant quantities of substances with legally established exposure limitation.

**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**

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN ISO 16321

**Hand protection**

Tested protective gloves must 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**

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. Breathing protection with filter against organic gases and vapours type A - boiling point > 65°C: A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

**9. Physical and chemical properties****Information on basic physical and chemical properties**

|                  |                   |
|------------------|-------------------|
| Physical state:  | liquid            |
| Color:           | brown             |
| Odor:            | like: Mineral oil |
| Odour threshold: | not determined    |

|                                                           |                         |                    |
|-----------------------------------------------------------|-------------------------|--------------------|
| Melting point/freezing point:                             | No data available       | <b>Test method</b> |
| Boiling point or initial boiling point and boiling range: | No data available       |                    |
| Flammability:                                             | No data available       |                    |
| Lower explosion limits:                                   | No data available       |                    |
| Upper explosion limits:                                   | No data available       |                    |
| Flash point:                                              | 245 °C                  | DIN EN ISO 2592    |
| Auto-ignition temperature:                                | No data available       |                    |
| Decomposition temperature:                                | No data available       |                    |
| pH-Value:                                                 | not applicable          |                    |
| Viscosity / kinematic:<br>(at 100 °C)                     | 14,2 mm <sup>2</sup> /s | ASTM D 7042        |

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|                                        |                                   |
|----------------------------------------|-----------------------------------|
| Water solubility:                      | practically insoluble.            |
| Solubility in other solvents           |                                   |
| No data available                      |                                   |
| Partition coefficient n-octanol/water: | No data available                 |
| Vapor pressure:                        | No data available                 |
| Density (at 15 °C):                    | 0,861 g/cm <sup>3</sup> DIN 51757 |
| Relative vapour density:               | No data available                 |
| Particle characteristics:              | No data available                 |

**Other information****Information with regard to physical hazard classes**

Explosive properties

No data available

Sustained combustibility:

UN Test L.2

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:

-36 °C ASTM D 7346

**10. Stability and reactivity****Reactivity**

The product is stable under storage at normal ambient temperatures.

**Chemical stability**

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

**Possibility of hazardous reactions**

No known hazardous reactions.

**Conditions to avoid**

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

**Incompatible materials**

Oxidizing agent, strong;

**Hazardous decomposition products**In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Sulphur oxides Phosphorus oxides.Nitrogen oxides (NO<sub>x</sub>). carbon black.**11. Toxicological information****Information on toxicological effects****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; ATE (inhalation dust/mist) &gt; 5 mg/l

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| CAS No      | Components                                                |                      |         |                     |                                   |
|-------------|-----------------------------------------------------------|----------------------|---------|---------------------|-----------------------------------|
|             | Exposure route                                            | Dose                 | Species | Source              | Method                            |
| 64741-88-4  | Distillates (petroleum), solvent-refined heavy paraffinic |                      |         |                     |                                   |
|             | oral                                                      | LD50 > 5000 mg/kg    | Rat     | Study report (1982) | OECD Guideline 401                |
|             | dermal                                                    | LD50 > 5000 mg/kg    | Rabbit  | Study report (1982) | OECD Guideline 402                |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic    |                      |         |                     |                                   |
|             | oral                                                      | LD50 > 5000 mg/kg    | Rat     | Study report (1982) | OECD Guideline 401                |
|             | dermal                                                    | LD50 > 5000 mg/kg    | Rabbit  | Study report (1982) | OECD Guideline 402                |
| 4259-15-8   | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)      |                      |         |                     |                                   |
|             | oral                                                      | LD50 3100 mg/kg      | Rat     | Study report (1975) | OECD Guideline 401                |
|             | dermal                                                    | LD50 > 5000 mg/kg    | Rabbit  | Study report (1975) | OECD Guideline 402                |
|             | 2-tetradecyloxirane, reaction products with boric acid    |                      |         |                     |                                   |
|             | oral                                                      | LD50 > 16000 mg/kg   | Rat     | Study report (1981) | other: Section 772.112-21 CFR 40. |
|             | dermal                                                    | LD50 > 2000 mg/kg    | Rat     | Study report (2012) | OECD Guideline 402                |
| 101-02-0    | Triphenyl phosphite                                       |                      |         |                     |                                   |
|             | oral                                                      | ATE 500 mg/kg        |         |                     |                                   |
| 121158-58-5 | Phenol, dodecyl-, branched                                |                      |         |                     |                                   |
|             | oral                                                      | LD50 2100 mg/kg      | Rat     | Publication (1978)  | OECD Guideline 401                |
|             | dermal                                                    | LD50 ca. 15000 mg/kg | Rabbit  | Study report (1968) | OECD Guideline 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.

**Sensitizing effects**

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

Contains 2-tetradecyloxirane, reaction products with boric 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.

**Specific target organ toxicity (STOT) - single exposure**

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

**Specific target organ toxicity (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 other hazards****Endocrine disrupting properties**

not applicable

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**12. Ecological information****Ecotoxicity**

Harmful to aquatic life with long lasting effects

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| CAS No      | Components                                                |                       |           |                                                     |                                   |                                         |
|-------------|-----------------------------------------------------------|-----------------------|-----------|-----------------------------------------------------|-----------------------------------|-----------------------------------------|
|             | Aquatic toxicity                                          | Dose                  | [h]   [d] | Species                                             | Source                            | Method                                  |
| 64741-88-4  | Distillates (petroleum), solvent-refined heavy paraffinic |                       |           |                                                     |                                   |                                         |
|             | Acute fish toxicity                                       | LL50 > 100 mg/l       | 96 h      |                                                     | Study report (1995)               | OECD Guideline 203                      |
|             | Fish toxicity                                             | NOEC >= 1000 mg/l     | 14 d      | Oncorhynchus mykiss                                 | CONCAWE, Brussels, Belgium (2010) | The aquatic toxicity was estimated by a |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic    |                       |           |                                                     |                                   |                                         |
|             | Acute fish toxicity                                       | LL50 > 100 mg/l       | 96 h      |                                                     | Study report (1995)               | OECD Guideline 203                      |
|             | Acute algae toxicity                                      | ErC50 >100 mg/l       | 72 h      |                                                     |                                   |                                         |
|             | Fish toxicity                                             | NOEC >= 1000 mg/l     | 14 d      | Oncorhynchus mykiss                                 | CONCAWE, Brussels, Belgium (2010) | The aquatic toxicity was estimated by a |
| 4259-15-8   | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)      |                       |           |                                                     |                                   |                                         |
|             | Acute fish toxicity                                       | LL50 4,4 mg/l         | 96 h      | Oncorhynchus mykiss                                 | Study report (2002)               | OECD Guideline 203                      |
|             | Acute algae toxicity                                      | ErC50 410 mg/l        | 72 h      | Desmodesmus subspicatus                             | Study report (2004)               | OECD Guideline 201                      |
|             | Acute crustacea toxicity                                  | EL50 75 mg/l          | 48 h      |                                                     | Study report (2005)               | OECD Guideline 202                      |
|             | Crustacea toxicity                                        | NOEC 0,4 mg/l         | 21 d      |                                                     | Study report (2010)               | OECD Guideline 211                      |
|             | 2-tetradecyloxirane, reaction products with boric acid    |                       |           |                                                     |                                   |                                         |
|             | Acute fish toxicity                                       | LL50 > 100 mg/l       | 96 h      | Oncorhynchus mykiss                                 | REACH Registration Dossier        | OECD Guideline 203                      |
|             | Acute algae toxicity                                      | ErC50 > 100 mg/l      | 72 h      | Raphidocelis subcapitata                            | Study report (2012)               | OECD Guideline 201                      |
|             | Acute crustacea toxicity                                  | EL50 > 100 mg/l       | 48 h      |                                                     | Study report (2012)               | OECD Guideline 202                      |
|             | Fish toxicity                                             | NOEC > 100 mg/l       | 33 d      |                                                     | REACH Registration Dossier        | OECD Guideline 210                      |
|             | Acute bacteria toxicity                                   | EC50 > 10000 mg/l ( ) | 3 h       | activated sludge of a predominantly domestic sewage | Study report (1994)               | OECD Guideline 209                      |
| 121158-58-5 | Phenol, dodecyl-, branched                                |                       |           |                                                     |                                   |                                         |
|             | Acute fish toxicity                                       | LL50 40 mg/l          | 96 h      |                                                     | Study report (1994)               | OECD Guideline 203                      |
|             | Acute algae toxicity                                      | ErC50 0,15 mg/l       | 72 h      | Desmodesmus subspicatus                             | Study report (2005)               | OECD Guideline 201                      |
|             | Acute crustacea toxicity                                  | EC50 0,037 mg/l       | 48 h      |                                                     | Study report (2005)               | OECD Guideline 202                      |
|             | Crustacea toxicity                                        | NOEC 0,004 mg/l       | 21 d      |                                                     | Study report (2005)               | OECD Guideline 211                      |
|             | Acute bacteria toxicity                                   | EC50 > 1000 mg/l ( )  | 3 h       | activated sludge of a predominantly industrial sew  | Study report (2004)               | OECD Guideline 209                      |

**Persistence and degradability**

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

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**Bioaccumulative potential**

No data available

**Partition coefficient n-octanol/water**

| CAS No      | Components                                             | Log Pow       |
|-------------|--------------------------------------------------------|---------------|
| 4259-15-8   | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)   | 3,59          |
|             | 2-tetradecyloxirane, reaction products with boric acid | >= 6,24 - 9,4 |
| 101-02-0    | Triphenyl phosphite                                    | 6,62          |
| 121158-58-5 | Phenol, dodecyl-, branched                             | 7,14          |

**BCF**

| CAS No      | Components                 | BCF | Species             | Source              |
|-------------|----------------------------|-----|---------------------|---------------------|
| 121158-58-5 | Phenol, dodecyl-, branched | 289 | Oncorhynchus mykiss | Study report (2006) |

**Mobility in soil**

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

**Results of PBT and vPvB assessment**

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

**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.

**Other adverse effects**

No data available

**Further information**

Do not allow uncontrolled discharge of product into the environment.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

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

**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 disposed of.

**14. Transport information****Land transport (ADR/RID)**

UN number or ID number: -  
UN proper shipping name: -  
Transport hazard class(es): -  
Packing group: -

**Inland waterways transport (ADN)**

UN number or ID number: -  
UN proper shipping name: -  
Transport hazard class(es): -  
Packing group: -

**Marine transport (IMDG)**

UN number or ID number: -  
UN proper shipping name: -  
Transport hazard class(es): -  
Packing group: -

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

**UN number or ID number:** -  
**UN proper shipping name:** -  
**Transport hazard class(es):** -  
**Packing group:** -

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**Other applicable information**

No dangerous good in sense of these transport regulations.

**15. Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

Phenol, dodecyl-, branched

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 30, Entry 75

**National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

**Chemical Safety Assessment**

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

**16. Other information****Changes**

This data sheet contains changes from the previous version in section(s): 2,3,5,7,8,9,10,11,16.

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## Abbreviations and acronyms

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

Repr: Reproductive toxicity

STOT RE: Specific target organ toxicity repeated or prolonged exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

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 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

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

## Relevant H statements (full text)

|        |                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------|
| H302   | Harmful if swallowed                                                                               |
| H314   | Causes severe skin burns and eye damage                                                            |
| H315   | Causes skin irritation                                                                             |
| H317   | May cause an allergic skin reaction                                                                |
| H318   | Causes serious eye damage                                                                          |
| H319   | Causes serious eye irritation                                                                      |
| H360F  | May damage fertility                                                                               |
| H373   | May cause damage to organs through prolonged or repeated exposure                                  |
| H400   | Very toxic to aquatic life                                                                         |
| H410   | Very toxic to aquatic life with long lasting effects                                               |
| H411   | Toxic to aquatic life with long lasting effects                                                    |
| H412   | Harmful to aquatic life with long lasting effects                                                  |
| EUH208 | Contains 2-tetradecyloxirane, reaction products with boric acid. May produce an allergic reaction. |

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**Other data**

This mixture is classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

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.

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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.)*