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Revision date / version: 21.09.2021 / 0015
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Valid from: 21.09.2021
PDF print date: 22.09.2021
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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

TRAKTOROEL UTTO SAE 10W30

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

Relevant identified uses of the substance or mixture:

Motor oil

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH
Jerg-Wieland-Str. 4
89081 Ulm-Lehr
Tel.: (+49) 0731-1420-0
Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

EUH208-Contains Triphenyl phosphite, C14-18 alpha-olefin epoxide, reaction products with boric acid. May produce an allergic reaction.
EUH210-Safety data sheet available on request.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

Product can compose a film on the water surface, which can prevent oxygen exchange.

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SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

| Distillates (petroleum), solvent-dewaxed light paraffinic | |
|--|-----------------------|
| Registration number (REACH) | 01-2119480132-48-XXXX |
| Index | 649-469-00-9 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 265-159-2 |
| CAS | 64742-56-9 |
| content % | 20-50 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304 |

| Baseoil - unspecified * | |
|--|-------------------|
| Registration number (REACH) | --- |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | --- |
| CAS | --- |
| content % | 1-<10 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304 |

| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | |
|--|--|
| Registration number (REACH) | 01-2119493635-27-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 224-235-5 |
| CAS | 4259-15-8 |
| content % | 1-<2,5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Eye Dam. 1, H318 Aquatic Chronic 2, H411 |
| Specific Concentration Limits and ATE | Eye Dam. 1, H318: >=50 % Eye Irrit. 2, H319: >=50 % |

| C14-18 alpha-olefin epoxide, reaction products with boric acid | |
|--|-----------------------|
| Registration number (REACH) | 01-2119976364-28-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 939-580-3 |
| CAS | --- |
| content % | 0,1-<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Skin Sens. 1B, H317 |

| Triphenyl phosphite | |
|--|---|
| Registration number (REACH) | 01-2119511213-58-XXXX |
| Index | 015-105-00-7 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 202-908-4 |
| CAS | 101-02-0 |
| content % | 0,1-<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) |
| Specific Concentration Limits and ATE | Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H319: >=5 % |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

* The contained mineral oil can be described by one or more of the following numbers:

| EINECS, ELINCS, NLP, REACH-IT List-No. | Registration number (REACH) | Chemical name |
|--|-----------------------------|--|
| 265-157-1 | 01-2119484627-25-XXXX | Distillates (petroleum), hydrotreated heavy paraffinic |

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| | | |
|-----------|-----------------------|---|
| 265-169-7 | 01-2119471299-27-XXXX | Distillates (petroleum), solvent-dewaxed heavy paraffinic |
| 265-158-7 | 01-2119487077-29-XXXX | Distillates (petroleum), hydrotreated light paraffinic |
| 265-159-2 | 01-2119480132-48-XXXX | Distillates (petroleum), solvent-dewaxed light paraffinic |

The substances named in this section are given with their actual, appropriate classification!
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!
 Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.
 Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.
 Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Give moderate amounts of water to drink.
 Do not induce vomiting. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.
 In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

The following may occur:

Drying of the skin.
 Irritation of the skin.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2
 Foam
 Dry extinguisher
 Water jet spray

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon
 Oxides of nitrogen
 Oxides of sulphur
 Flammable vapour/air mixtures

5.3 Advice for firefighters

For personal protective equipment see Section 8.
 In case of fire and/or explosion do not breathe fumes.
 Protective respirator with independent air supply.
 According to size of fire
 Full protection, if necessary.
 Cool container at risk with water.
 Dispose of contaminated extinction water according to official regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.
 Ensure sufficient ventilation, remove sources of ignition.
 Avoid dust formation with solid or powder products.
 Leave the danger zone if possible, use existing emergency plans if necessary.
 Avoid inhalation, and contact with eyes or skin.
 Do not carry cleaning cloths soaked in product in trouser pockets.
 If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.
 Resolve leaks if this possible without risk.
 Prevent from entering drainage system.
 Prevent surface and ground-water infiltration, as well as ground penetration.
 If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Avoid formation of oil mist.
 Ensure good ventilation.
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
 Do not heat to temperatures close to flash point.
 Take measures against electrostatic charging, if appropriate.
 Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.
 Store product closed and only in original packing.
 Protect against moisture and store closed.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Chemical Name | Oil mist, mineral | Content %: |
|---|--------------------------------------|------------------------|
| WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal working fluids, ACGIH) | WEL-STEL: --- | --- |
| Monitoring procedures: | - Draeger - Oil Mist 1/a (67 33 031) | |
| BMGV: --- | | Other information: --- |

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| Baseoil - unspecified | | | | | | |
|------------------------------|--|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - oral (animal feed) | | PNEC | 9,33 | mg/kg | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 1,2 | mg/m ³ | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,74 | mg/kg | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 1 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 5,6 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 2,7 | mg/m ³ | |

| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | | | | | | |
|---|--|------------------------------|------------|---------|--------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,004 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,0701 | mg/kg | |
| | Environment - marine | | PNEC | 0,0046 | mg/l | |
| | Environment - sediment, marine | | PNEC | 0,00701 | mg/kg | |
| | Environment - soil | | PNEC | 0,0548 | mg/kg | |
| | Environment - air | | PNEC | 7,1 | mg/m ³ | |
| | Environment - sewage treatment plant | | PNEC | 3,8 | mg/l | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 0,14 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 0,42 | mg/m ³ | |
| Workers / employees | Human - dermal | Short term, local effects | DNEL | 0,09 | mg/cm ² | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 0,42 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 9,59 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,21 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, local effects | DNEL | 0,09 | mg/cm ² | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 0,07 | mg/m ³ | |

| Triphenyl phosphite | | | | | | |
|----------------------------|--|-----------------------------|------------|--------|--------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,15 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,53 | mg/m ³ | |
| Consumer | Human - dermal | Long term, local effects | DNEL | 0,0117 | mg/cm ² | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,075 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 0,15 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,53 | mg/m ³ | |

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| | | | | | | |
|---------------------|----------------|---------------------------|------|--------|--------|--|
| Workers / employees | Human - dermal | Short term, local effects | DNEL | 0,0117 | mg/cm2 | |
|---------------------|----------------|---------------------------|------|--------|--------|--|

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE).
 (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
 Applies only if maximum permissible exposure values are listed here.
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.
 These are specified by e.g. EN 14042.
 EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
 Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:
 Protective nitrile gloves (EN ISO 374).
 Minimum layer thickness in mm:
 0,35
 Permeation time (penetration time) in minutes:
 >= 480
 Protective PVC gloves (EN ISO 374).
 Protective hand cream recommended.
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
 The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:
 If OES or MEL is exceeded.
 Filter A2 P2 (EN 14387), code colour brown, white
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
 Not applicable

Additional information on hand protection - No tests have been performed.
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
 Selection of materials derived from glove manufacturer's indications.
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

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Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--------------------------------|
| Physical state: | Liquid |
| Colour: | Yellow, Brown |
| Odour: | Characteristic |
| Odour threshold: | Not determined |
| Melting point/freezing point: | 36 °C |
| Initial boiling point and boiling range: | Not determined |
| Flammability (solid, gas): | Not determined |
| Lower explosive limit: | Not determined |
| Upper explosive limit: | Not determined |
| Flash point: | 230 °C |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| pH-value: | Not determined |
| Viscosity: | 9,5 mm ² /s (100°C) |
| Viscosity: | 55 mm ² /s (40°C) |
| Water solubility: | Insoluble |
| Partition coefficient (n-octanol/water): | Not determined |
| Vapour pressure: | Not determined |
| Density: | 0,885 g/ml |
| Vapour density (air = 1): | Not determined |
| Evaporation rate: | Not determined |
| Bulk density: | Not determined |
| Solubility(ies): | Not determined |
| Explosive properties: | Not determined |
| Oxidising properties: | Not determined |

9.2 Other information

| | |
|---------------------------|----------------|
| Miscibility: | Not determined |
| Conductivity: | Not determined |
| Fat solubility / solvent: | Not determined |
| Solvents content: | Not determined |
| Surface tension: | Not determined |

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Protect from humidity.

Open flame, ignition sources

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

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11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

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| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |

Distillates (petroleum), solvent-dewaxed light paraffinic

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|------------|------------|---|---------------------------------------|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >5,53 | mg/l | Rat | OECD 403 (Acute Inhalation Toxicity) | Dust, Mist |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mammalian | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Carcinogenicity: | | | | Mouse | | Female, Negative |
| Reproductive toxicity: | NOAEL | >2000 | mg/kg bw/d | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | |
| Reproductive toxicity: | NOAEL | >1000 | mg/kg bw/d | Rat | OECD 421 (Reproduction/Developmental Toxicity Screening Test) | |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | drying of the skin., vomiting, nausea |

Baseoil - unspecified

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| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|------|----------|-------------|---------------------------------------|
| Respiratory or skin sensitisation: | | | | | | Not sensitizing, Analogous conclusion |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | mucous membrane irritation |

| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | | | | | | |
|---|----------|-------|-------|------------|--|-----------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >3100 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | Male |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Dam. 1 |
| Serious eye damage/irritation: | | ≥50 | % | | | Eye Dam. 1 |
| Serious eye damage/irritation: | | ≥50 | % | | | Eye Irrit. 2 in mineral oil |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity: | NOAEL | 30 | mg/kg | Rat | OECD 421 (Reproduction/Developmental Toxicity Screening Test) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOEL | 125 | mg/kg | | OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) | |

| C14-18 alpha-olefin epoxide, reaction products with boric acid | | | | | | |
|--|----------|-------|-------|------------|---|---------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Skin Sens. 1B |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |

| Triphenyl phosphite | | | | | | |
|------------------------------------|----------|-------|------|------------------------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Yes (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | (Ames-Test) | Negative |
| Symptoms: | | | | | | mucous membrane irritation, paralysis, trembling |

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|----------|------|-------|------|----------|-------------|--|
| 12.1. Toxicity to fish: | | | | | | | n.d.a. |
| 12.1. Toxicity to daphnia: | | | | | | | n.d.a. |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. |
| 12.2. Persistence and degradability: | | | | | | | Isolate as much as possible with an oil separator. |
| 12.3. Bioaccumulative potential: | | | | | | | n.d.a. |
| 12.4. Mobility in soil: | | | | | | | n.d.a. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | n.d.a. |
| 12.6. Other adverse effects: | | | | | | | n.d.a. |

| Distillates (petroleum), solvent-dewaxed light paraffinic | | | | | | | |
|---|-----------|------|--------|------|---------------------------------|--|-------------------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 10 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to fish: | LL50 | 96h | >100 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EL50 | 48h | >10000 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | LL50 | 48h | >1000 | mg/l | Gammarus sp. | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | >100 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | | | | | | Inherent |
| 12.3. Bioaccumulative potential: | Log Pow | | >3 | | | | Low |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| Baseoil - unspecified | | | | | | | |
|--------------------------------------|-----------|------|--------|------|-------------------------|--|---------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >10000 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | >10 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC50 | 72h | >100 | mg/l | Scenedesmus quadricauda | | |
| 12.2. Persistence and degradability: | | 28d | 31 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Not readily biodegradable |

| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | | | | | | | |
|--|----------|------|-------|------|---------------------|--------------------------------------|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 4,4 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |

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| | | | | | | | |
|--|-----------|-----|------|------|-------------------------|--|---|
| 12.1. Toxicity to fish: | NOEC/NOEL | 4d | 3,2 | mg/l | Oncorhynchus mykiss | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 75 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 0,4 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | ErC50 | 72h | >240 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 3d | 220 | mg/l | Scenedesmus quadricauda | | |
| 12.2. Persistence and degradability: | COD | 28d | <5 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Not readily biodegradable |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC50 | 3h | 380 | mg/l | Pseudomonas putida | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other information: | AOX | | 0 | % | | | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |

C14-18 alpha-olefin epoxide, reaction products with boric acid

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|----------|------|-------|------|---------------------------------|---|---------------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | NOELR | 21d | 10 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >100 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | >100 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOELR | 72h | 100 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 17,3 | % | | OECD 301 A (Ready Biodegradability - DOC Die-Away Test) | Not readily biodegradable |

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| | | | | | | | |
|----------------------------------|---------|--|----------|--|--|--|--|
| 12.3. Bioaccumulative potential: | Log Pow | | 6,24-9,4 | | | OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method) | |
|----------------------------------|---------|--|----------|--|--|--|--|

| Triphenyl phosphite | | | | | | | |
|--------------------------------------|----------|------|-------|------|---------------|--|---------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 0,94 | mg/l | Daphnia magna | | |
| 12.2. Persistence and degradability: | COD | 28d | 0,14 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Not readily biodegradable |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.
EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

Empty container completely.

Untampered packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

14.1. UN number: n.a.

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Classification code: n.a.

LQ: n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Marine Pollutant: n.a.

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

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14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

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

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC): < 0,15 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 2.3, 3, 5, 6, 11, 12, 15

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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.

Asp. Tox. — Aspiration hazard

Eye Dam. — Serious eye damage

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Skin Sens. — Skin sensitization

Acute Tox. — Acute toxicity - oral

Skin Irrit. — Skin irritation

Eye Irrit. — Eye irritation

Aquatic Acute — Hazardous to the aquatic environment - acute

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

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BCF Bioconcentration factor
 BSEF The International Bromine Council
 bw body weight
 CAS Chemical Abstracts Service
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
 CMR carcinogenic, mutagenic, reproductive toxic
 DMEL Derived Minimum Effect Level
 DNEL Derived No Effect Level
 DOC Dissolved organic carbon
 dw dry weight
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
 EbCx, EyCx, Eblx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)
 EC European Community
 ECHA European Chemicals Agency
 ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect
 EEC European Economic Community
 EINECS European Inventory of Existing Commercial Chemical Substances
 ELINCS European List of Notified Chemical Substances
 EN European Norms
 EPA United States Environmental Protection Agency (United States of America)
 ErCx, EμCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)
 etc. et cetera
 EU European Union
 EVAL Ethylene-vinyl alcohol copolymer
 Fax. Fax number
 gen. general
 GHS Globally Harmonized System of Classification and Labelling of Chemicals
 GWP Global warming potential
 Koc Adsorption coefficient of organic carbon in the soil
 Kow octanol-water partition coefficient
 IARC International Agency for Research on Cancer
 IATA International Air Transport Association
 IBC (Code) International Bulk Chemical (Code)
 IMDG-code International Maritime Code for Dangerous Goods
 incl. including, inclusive
 IUCLID International Uniform Chemical Information Database
 IUPAC International Union for Pure Applied Chemistry
 LC50 Lethal Concentration to 50 % of a test population
 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
 Log Koc Logarithm of adsorption coefficient of organic carbon in the soil
 Log Kow, Log Pow Logarithm of octanol-water partition coefficient
 LQ Limited Quantities
 MARPOL International Convention for the Prevention of Marine Pollution from Ships
 n.a. not applicable
 n.av. not available
 n.c. not checked
 n.d.a. no data available
 NLP No-longer-Polymer
 NOEC, NOEL No Observed Effect Concentration/Level
 OECD Organisation for Economic Co-operation and Development
 org. organic
 PBT persistent, bioaccumulative and toxic
 PE Polyethylene
 PNEC Predicted No Effect Concentration
 ppm parts per million
 PVC Polyvinylchloride
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
 SVHC Substances of Very High Concern

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Tel. Telephone
TOC Total organic carbon
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.

These statements were made by:

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