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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

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 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Gear lubricant
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 C14-18 alpha-olefin epoxide, reaction products with boric acid, Triphenyl phosphite. 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 %).



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SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

| 3.2 Mixtures | |
|---|--|
| 1-Decene, homopolymer, hydrogenated | |
| Registration number (REACH) | 01-2119486452-34-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 500-183-1 |
| CAS | 68037-01-4 |
| content % | 50-<70 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304 |
| | 7.50. 107. 1, 11504 |
| Baseoil - unspecified * | |
| Registration number (REACH) | |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | |
| CAS | |
| content % | 1-<5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304 |
| Classification according to Regulation (EC) 1212/2000 (CEP), M-ractors | Asp. 10x. 1, 11304 |
| 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 |
| Creatific Concentration Limits and ATE | Aquatic Chronic 2, H411 Eye Dam. 1, H318: >=50 % |
| Specific Concentration Limits and ATE | |
| | 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 |
| classification according to Regulation (EC) 1212/2008 (CEP), M-lactors | |
| Triphenyl phosphite | |
| | |
| | |
| Registration number (REACH) | |
| Registration number (REACH) Index | 015-105-00-7 |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. | 015-105-00-7 202-908-4 |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS | 015-105-00-7 202-908-4 101-02-0 |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % | 015-105-00-7 202-908-4 101-02-0 0,1-<0,25 |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS | 015-105-00-7 202-908-4 101-02-0 0,1-<0,25 Acute Tox. 4, H302 |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % | 015-105-00-7 202-908-4 101-02-0 0,1-<0,25 Acute Tox. 4, H302 Skin Irrit. 2, H315 |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % | 015-105-00-7 202-908-4 101-02-0 0,1-<0,25 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % | 015-105-00-7 202-908-4 101-02-0 0,1-<0,25 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % | 015-105-00-7 202-908-4 101-02-0 0,1-<0,25 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | 015-105-00-7 202-908-4 101-02-0 0,1-<0,25 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) |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % | 015-105-00-7 202-908-4 101-02-0 0,1-<0,25 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Skin Irrit. 2, H315: >=5 % |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | 015-105-00-7 202-908-4 101-02-0 0,1-<0,25 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) |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Specific Concentration Limits and ATE | 015-105-00-7 202-908-4 101-02-0 0,1-<0,25 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) Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H319: >=5 % |
| Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | 015-105-00-7 202-908-4 101-02-0 0,1-<0,25 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) Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H319: >=5 % |

| * The contained mineral oil can be described by one or more of the following numbers: | | | | | | | | |
|---|-----------------------|--|--|--|--|--|--|--|
| EINECS, ELINCS, NLP, REACH- Registration number (REACH) Chemical name | | | | | | | | |
| IT List-No. | | | | | | | | |
| 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

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

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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. Sensitive individuals:

Allergic reaction possible.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

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 Aldehydes Oxides of phosphorus Oxides of sulphur Hydrogen sulphide Toxic gases

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.

Ensure sufficient supply of air.

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Avoid contact with eyes or skin.

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, sand, diatomaceous earth, sawdust) 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

Ensure good ventilation.

Avoid formation of oil mist.

Avoid contact with eyes or skin. Do not carry cleaning cloths soaked in product in trouser pockets. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

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.

Under all circumstances prevent penetration into the soil. Store at room temperature.

Store in a dry place.

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, e | excluding metal | WEL-STEL: | |
| working fluids, ACGIH) | | | |
| Monitoring procedures: | - [| Draeger - Oil Mist 1/a (67 33 031) | |



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BMGV: ---

Other information: ---

| Area of application | Exposure route / | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|----------------------------|--------------------------|------------|-------|-------|------|
| | Environmental | | | | | |
| | compartment | | | | | |
| | Environment - oral (animal | | PNEC | 9,33 | mg/kg | |
| | feed) | | | | | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 1,2 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic | DNEL | 0,74 | mg/kg | |
| | | effects | | | | |
| Workers / employees | Human - dermal | Long term, systemic | DNEL | 1 | mg/kg | |
| | | effects | | | | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 5,6 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic | DNEL | 2,7 | mg/m3 | |
| | | effects | | | - | |

| 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/m3 | |
| | 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/m3 | |
| Workers / employees Human - dermal | | Short term, local effects | DNEL | 0,09 | mg/cm2 | |
| Workers / employees Human - inhalation | | Short term, local effects | DNEL | 0,42 | mg/m3 | |
| 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/m3 | |
| Workers / employees | Human - dermal | Long term, local effects | DNEL | 0,09 | mg/cm2 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 0,07 | mg/m3 | |

| 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 | ronsumer Human - inhalation | | r Human - inhalation Long term, system effects | | DNEL | 0,53 | mg/m3 | |
| Consumer | Human - dermal | Long term, local effects | DNEL | 0,0117 | mg/cm2 | | | |
| 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/m3 | | | |



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

| Distillates (petroleum), hydrotreated heavy paraffinic | | | | | | | | | |
|--|----------------------------|--|------|------|------------|--|--|--|--|
| Area of application Exposure route / Effect on health Descriptor Value Unit Note | | | | | | | | | |
| | Environmental | | | | | | | | |
| | compartment | | | | | | | | |
| | Environment - oral (animal | | PNEC | 9,33 | mg/kg feed | | | | |
| | feed) | | | | | | | | |

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: Chemical resistant protective gloves (EN ISO 374). If applicable Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes: >= 480 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. Protective hand cream recommended.

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 A P2 (EN 14387), code colour brown, white



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Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

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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. 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: | Brown |
| Odour: | Characteristic |
| Odour threshold: | Not determined |
| pH-value: | Not determined |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | Not determined |
| Flash point: | 220 °C |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | Not determined |
| Lower explosive limit: | Not determined |
| Upper explosive limit: | Not determined |
| Vapour pressure: | Not determined |
| Vapour density (air = 1): | Not determined |
| Density: | 0,850 g/cm3 |
| Bulk density: | Not determined |
| Solubility(ies): | Not determined |
| Water solubility: | Insoluble |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Viscosity: | 27,5 mm2/s (40°C) |
| Viscosity: | 5,7 mm2/s (100°C) |
| Explosive properties: | Not determined |
| Oxidising properties: | Not determined |
| 9.2 Other information | |
| Miscibility: | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity: | Not determined |
| Surface tension: | Not determined |
| Solvents content: | 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**



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Strong heat **10.5 Incompatible materials**

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Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

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

| 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 | | | | | | n.d.a. |
| sensitisation: | | | | | | |
| 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. |

| 1-Decene, homopolymer, hydrogenated | | | | | | | | |
|-------------------------------------|----------|-------|------|----------|-------------|-------------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | |
| Aspiration hazard: | | | | | | Asp. Tox. 1 | | |

| Baseoil | - | uns | pecified |
|---------|---|-----|-----------|
| | | | p = = = = |

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

| 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. 2in 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 |



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| | · · · • • = · | | | · | | |
| Reproductive toxicity: | NOAEL | 30 | mg/kg | Rat | OECD 421 (Reproduction/Developm ental 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, re | action produc | ete with horic a | cid | | | |
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | NOIGS |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Yes (skin contact), 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 |
| Acute toxicity, by oral route: | LD50 | 1590 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | > 2000 - < 5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LD50 | > 6,7 | mg/l/1h | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| 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). Lamellenkupplungsoel Toxicity / effect Time Endpoint 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 n.d.a. degradability: 12.3. Bioaccumulative n.d.a. potential: 12.4. Mobility in soil: n.d.a. 12.5. Results of PBT n.d.a. and vPvB assessment 12.6. Other adverse n.d.a. effects: Other information: DOC-elimination degree(complexi ng organic substance)>= 80%/28d: No

1-Decene, homopolymer, hydrogenated



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| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|-----------|------|-------|------|----------------------------|---|----------|
| 12.3. Bioaccumulative potential: | Log Kow | | >6,5 | | | | measured |
| 12.1. Toxicity to algae: | LC50 | 72h | >1000 | mg/l | Scenedesmus quadricauda | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >1000 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 125 | mg/l | Daphnia magna | | |
| 12.2. Persistence and degradability: | | 28d | 2 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | |

| 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 |

| 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) | |
| 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)) | |



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| Other information: | AOX | 0 | % | Does not contain |
|--------------------|-----|---|---|-------------------|
| | | | | any organically |
| | | | | bound halogens |
| | | | | which can |
| | | | | contribute to the |
| | | | | AOX value in |
| | | | | waste water. |

| oxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|----------|------|----------|------|--------------------|------------------------------------|-------|
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Oncorhynchus | OECD 203 (Fish, | |
| | | | | | mykiss | 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 | Pseudokirchneriell | OECD 201 (Alga, | |
| | | | | | a subcapitata | Growth Inhibition | |
| | | | 400 | | | Test) | |
| 12.1. Toxicity to algae: | NOELR | 72h | 100 | mg/l | Pseudokirchneriell | OECD 201 (Alga, | |
| | | | | | a subcapitata | Growth Inhibition | |
| | | 00.1 | 47.0 | 0/ | | Test) OECD 301 A | |
| 12.2. Persistence and | | 28d | 17,3 | % | | | |
| degradability: | | | | | | (Ready | |
| | | | | | | Biodegradability - DOC Die-Away | |
| | | | | | | Test) | |
| 12.3. Bioaccumulative | Log Pow | | 6,24-9,4 | | | OECD 117 | |
| potential: | LUGIOW | | 0,24-9,4 | | | (Partition | |
| potentiai. | | | | | | Coefficient (n- | |
| | | | | | | octanol/water) - | |
| | | | | | | HPLC method) | |

| Triphenyl phosphite | | | | | | | |
|----------------------------|----------|------|-------|------|---------------|---------------------|----------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |
| 12.1. Toxicity to algae: | EC50 | 72h | =< 1 | mg/l | | | |
| 12.2. Persistence and | | | | | | | Product may |
| degradability: | | | | | | | hydrolyse. |
| 12.1. Toxicity to fish: | LC50 | 96h | =< 1 | mg/l | | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 0,94 | mg/l | Daphnia magna | | |
| 12.2. Persistence and | COD | 28d | 0,14 | % | | OECD 301 D | Not readily |
| degradability: | | | | | | (Ready | biodegradable |
| | | | | | | Biodegradability - | - |
| | | | | | | Closed Bottle Test) | |
| 12.3. Bioaccumulative | Log Pow | | 4,98 | | | , | |
| potential: | | | | | | | |

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.



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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. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

| Contra Statemente | |
|-------------------------------------|----------------|
| 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. |
| 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):

0,05 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

n.a.



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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:

according, according to acc., acc. 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 Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BAuA 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 Dissolved organic carbon DOC dry weight dw 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 European Inventory of Existing Commercial Chemical Substances EINECS European List of Notified Chemical Substances ELINCS ΕN European Norms EPA United States Environmental Protection Agency (United States of America) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) $ErCx, E\mu Cx, ErLx (x = 10, 50)$ etc. et cetera



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| |
| 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 |
| |
| REACHRegistration, 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 |
| 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: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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