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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 21.11.2022 / 0007
Replacing version dated / version: 01.11.2021 / 0006
Valid from: 21.11.2022
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Bremsfluessigkeit SL6 DOT 4

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:

Hydraulic fluid

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)
+1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

| Hazard class | Hazard category | Hazard statement |
|--------------|-----------------|---|
| Repr. | 2 | H361d-Suspected of damaging the unborn child. |

2.2 Label elements

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



Warning

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H361d-Suspected of damaging the unborn child.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.
 P201-Obtain special instructions before use. P280-Wear protective gloves / protective clothing / eye protection / face protection.
 P308+P313-IF exposed or concerned: Get medical advice / attention.
 P405-Store locked up.
 P501-Dispose of contents / container to an approved waste disposal facility.

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

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 %).

SECTION 3: Composition/information on ingredients

Polyalkylene glycols and additives

3.1 Substances

n.a.

3.2 Mixtures

| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | |
|--|-----------------------|
| Registration number (REACH) | 01-2119462824-33-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 250-418-4 |
| CAS | 30989-05-0 |
| content % | 25-<50 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Repr. 2, H361d |

| Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol | |
|--|--|
| Registration number (REACH) | 01-2119531322-53-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 907-996-4 |
| CAS | --- |
| content % | 1-<5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Eye Dam. 1, H318 |
| Specific Concentration Limits and ATE | Eye Dam. 1, H318: >=30 % Eye Irrit. 2, H319: >=20 % |

| 1,1'-iminodipropan-2-ol | |
|--|-----------------------|
| Registration number (REACH) | 01-2119475444-34-XXXX |
| Index | 603-083-00-7 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 203-820-9 |
| CAS | 110-97-4 |
| content % | 1-<2,5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Eye Irrit. 2, H319 |

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

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

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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

Rinse the mouth thoroughly with water.

Call doctor immediately - have Data Sheet available.

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.

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

Water jet spray / alcohol resistant foam / CO₂ / dry extinguisher.

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:

Nitro gases

Oxides of carbon

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.

Dispose of contaminated extinction water according to official regulations.

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.

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.

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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) 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 contact with eyes or skin.
 Pregnant women should avoid contact with this product.
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
 Observe directions on label and instructions for use.
 Use working methods according to operating instructions.

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

Keep out of access to unauthorised individuals.
 Not to be stored in gangways or stair wells.
 Store product closed and only in original packing.
 Keep away from combustible material.
 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

| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | | | | | | |
|--|--|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,211 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 2,112 | mg/l | |
| | Environment - marine | | PNEC | 0,021 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,76 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,076 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,028 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 7,2 | mg/m ³ | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 4,1 | mg/kg bw/d | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 4,1 | mg/kg bw/d | |

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| | | | | | | |
|---------------------|--------------------|-----------------------------|------|------|-------------------|--|
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 29,1 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 8,3 | mg/kg bw/d | |

Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|---|-----------------------------|------------|-------|-------------------|------|
| | Environment - marine | | PNEC | 0,2 | mg/l | |
| | Environment - sporadic (intermittent) release | | PNEC | 1,8 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 500 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 6,6 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,66 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,46 | mg/kg dw | |
| | Environment - oral (animal feed) | | PNEC | 111 | mg/kg feed | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 12,5 | mg/kg bw/d | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 125 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 117 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 208 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 195 | mg/m ³ | |

1,1'-iminodiprop-2-ol

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|---------|-------------------|------|
| | Environment - freshwater | | PNEC | 0,2777 | mg/l | |
| | Environment - marine | | PNEC | 0,02777 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 2,777 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 2,33 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,233 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,303 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 15000 | mg/l | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 3,9 | mg/m ³ | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 6,3 | mg/kg bw/d | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 1,3 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 6,4 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 5 | mg/kg bw/d | |

2-(2-(2-methoxyethoxy)ethoxy)ethanol

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| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| | Environment - freshwater | | PNEC | 10 | mg/l | |
| | Environment - marine | | PNEC | 1 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 50 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 36,6 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 3,66 | mg/kg dw | |
| | Environment - soil | | PNEC | 1,56 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 200 | mg/l | |
| | Environment - oral (animal feed) | | PNEC | 89 | mg/kg feed | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 20 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 93 | mg/m ³ | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 2 | mg/kg bw/d | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 40 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 156 | mg/m ³ | |

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.

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 with side protection (EN 166).

Skin protection - Hand protection:
 Chemical resistant protective gloves (EN ISO 374).

With short-term contact:
 Protective nitrile gloves (EN ISO 374).
 Minimum layer thickness in mm:

0,4
 Permeation time (penetration time) in minutes:

30
 With long-term contact:

Protective gloves in butyl rubber (EN ISO 374).
 Minimum layer thickness in mm:

0,7
 Permeation time (penetration time) in minutes:

480
 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).

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Respiratory protection:
 Normally not necessary.

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.
 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 |
| Odour: | Characteristic |
| Melting point/freezing point: | <-70 °C (ASTM D 1177) |
| Boiling point or initial boiling point and boiling range: | ~265 °C (ASTM D 1120) |
| Flammability: | Flammable |
| Lower explosion limit: | There is no information available on this parameter. |
| Upper explosion limit: | There is no information available on this parameter. |
| Flash point: | ~136 °C (ISO 2719 (Pensky-Martens, closed cup)) |
| Auto-ignition temperature: | >300 °C (DIN 51794) |
| Decomposition temperature: | ~360 °C |
| pH: | ~8 (50 %, 20°C, ASTM D 1287) |
| Kinematic viscosity: | ~12,3 mm ² /s (20°C, DIN 51562) |
| Solubility: | Mixable 20°C |
| Partition coefficient n-octanol/water (log value): | Does not apply to mixtures. |
| Vapour pressure: | ~0,27 Pa (20°C) |
| Density and/or relative density: | ~1,06 g/cm ³ (20°C, DIN 51757) |
| Relative vapour density: | There is no information available on this parameter. |
| Particle characteristics: | Does not apply to liquids. |

9.2 Other information

| | |
|--------------------|---------------------------|
| Explosives: | Product is not explosive. |
| Oxidising liquids: | No |

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

See also section 7.

Strong heat

Decomposition:

T ~ 360°C (DSC)

Protect from humidity.

Product is hygroscopic.

10.5 Incompatible materials

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See also section 7.
 None known

10.6 Hazardous decomposition products

See also section 5.2
 No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

| Bremsflüssigkeit SL6 DOT 4 | | | | | | |
|---|----------|-------|------|----------|-------------|--------|
| 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. |

| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | | | | | | |
|--|----------|-------|------------|----------|--|--------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| 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 |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity: | NOAEL | 250 | mg/kg bw/d | Rabbit | OECD 414 (Prenatal Developmental Toxicity Study) | |

| Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol | | | | | | |
|--|----------|-------|-------|------------|-------------------------------|-------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | 3540 | mg/kg | Rabbit | | |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Eye Dam. 1 |
| Serious eye damage/irritation: | | >=30 | % | | | Eye Dam. 1 |
| Serious eye damage/irritation: | | >=20 | % | | | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | | in vitro | Negative |

| 1,1'-iminodiprop-2-ol | | | | | | |
|--------------------------------|----------|-------|-------|----------|--------------------------------|-------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 4765 | mg/kg | Rat | | |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |

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| | | | | | | |
|------------------------------------|------|------|-------|------------|--|-------------------|
| Acute toxicity, by dermal route: | LD50 | 8000 | mg/kg | Rabbit | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |

11.2. Information on other hazards

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|----------------------------------|----------|-------|------|----------|-------------|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Endocrine disrupting properties: | | | | | | Does not apply to mixtures. |
| Other information: | | | | | | No other relevant information available on adverse effects on health. |

SECTION 12: Ecological information

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

| Bremsfluessigkeit SL6 DOT 4 | | | | | | | |
|--|----------|------|-------|------|----------|-------------|---|
| 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: | | | | | | | n.d.a. |
| 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. Endocrine disrupting properties: | | | | | | | Does not apply to mixtures. |
| 12.7. Other adverse effects: | | | | | | | n.d.a. |
| Other information: | | | | | | | According to the recipe, contains no AOX. |

| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | | | | | | | |
|--|----------|------|--------|------|---------------------|---|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.2. Persistence and degradability: | | 10d | >70 | % | | OECD 301 A (Ready Biodegradability - DOC Die-Away Test) | |
| 12.1. Toxicity to fish: | LC50 | 96h | 100,3 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >211,2 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |

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| | | | | | | | |
|--|------|-----|--------|------|---------------------------------|---|-------------------------------------|
| 12.1. Toxicity to algae: | EC50 | 72h | >224,4 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol | | | | | | | |
|--|----------|-------|-------|------|------------------|--|-----------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 2400 | mg/l | Leuciscus idus | DIN 38412 T.15 | Analogous conclusion |
| 12.1. Toxicity to daphnia: | EC50 | 8h | 2210 | mg/l | Daphnia magna | | Analogous conclusion |
| 12.1. Toxicity to algae: | EC10 | 72h | 612,5 | mg/l | | | Analogous conclusion |
| 12.2. Persistence and degradability: | | | | | | | Readily biodegradable |
| Toxicity to bacteria: | EC10 | 30min | >1995 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |

| 1,1'-iminodipropan-2-ol | | | | | | | |
|--------------------------------------|----------|------|-------|------|-------------------------|--|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.2. Persistence and degradability: | | 28d | 94 | % | activated sludge | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | |
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 277,7 | mg/l | Daphnia magna | 84/449/EEC C.2 | |
| 12.1. Toxicity to algae: | EC50 | 72h | 339 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

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)

16 01 13 brake fluids

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

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

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General statements

14.1. UN number or ID number: Not applicable

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: Not applicable
 Classification code: Not applicable
 LQ: Not applicable
 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: Not applicable
 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: Not applicable
 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. Maritime transport in bulk according to IMO instruments

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:
 Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!
 Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 46,5 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 9
 These details refer to the product as it is delivered.
 Employee instruction/training in handling hazardous materials is required.

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

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|---|--|
| Repr. 2, H361d | Classification according to calculation procedure. |

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).

- H361d Suspected of damaging the unborn child.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.

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Repr. — Reproductive toxicity
 Eye Dam. — Serious eye damage
 Eye Irrit. — Eye irritation

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.
 Guidelines for the preparation of safety data sheets as amended (ECHA).
 Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).
 Safety data sheets for the constituent substances.
 ECHA Homepage - Information about chemicals.
 GESTIS Substance Database (Germany).
 German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).
 EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.
 National Lists of Occupational Exposure Limits for each country as amended.
 Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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)
 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

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IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCILID 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
NIOSH National Institute for Occupational Safety and Health (USA)
NLP No-longer-Polymer
NOEC, NOEL No Observed Effect Concentration/Level
OECD Organisation for Economic Co-operation and Development
org. organic
OSHA Occupational Safety and Health Administration (USA)
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
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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