

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

· **1.1 Product identifier**

· **Trade name: BRAKE FLUID DOT 5.1**

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

No further relevant information available.

· **Application of the substance / the mixture**

Only for proper handling.
Brake fluid

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

MOTOREX AG
Bern-Zürich-Strasse 31, Postfach
CH-4901 Langenthal
Tel. +41 (0)62 919 75 75
www.motorex.com

· **Further information obtainable from:** msds@motorex.com

· **1.4 Emergency telephone number:**

In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).

*** SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**



GHS08

· **Signal word** Warning

· **Hazard-determining components of labelling:**

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

· **Hazard statements**

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

- **Description:** Mixture of substances

- **Dangerous components:**

| | | |
|---|--|----------|
| CAS: 30989-05-0 EINECS: 250-418-4 Reg.nr.: 01-2119462824-33 | Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate Repr. 2, H361fd | ≥50-≤70% |
| CAS: 110-97-4 EINECS: 203-820-9 Index number: 603-083-00-7 | 1,1'-iminodipropan-2-ol Eye Irrit. 2, H319 | ≥1-≤2.5% |
| CAS: 143-22-6 EINECS: 205-592-6 Index number: 603-183-00-0 Reg.nr.: 01-2119531322-53 | 2-[2-(2-butoxyethoxy)ethoxy]ethanol Eye Dam. 1, H318 Specific concentration limits: Eye Dam. 1; H318: C ≥ 30% Eye Irrit. 2; H319: 25 % ≤ C < 30 % | ≥1-≤2.5% |
| | Reaktionsmasse aus 2-(2-(2-Butoxyethoxy)ethoxy)ethanol und 3,6,9,12-Tetraoxahexadecan-1-ol Eye Dam. 1, H318 Specific concentration limits: Eye Dam. 1; H318: C ≥ 30% Eye Irrit. 2; H319: 20 % ≤ C < 30 % | ≥1-≤2.5% |

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Remove residues with soap and water.

Remove contaminated clothing immediately.

- **After eye contact:**

Rinse opened eye for several minutes under running water.

Consult a physician if irritation develops.

- **After swallowing:** Rinse mouth and immediately consult a physician

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

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- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Good general ventilation should be sufficient for most conditions.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Keep container tightly closed; product is hygroscopic.
Store in cool, dry well ventilated area away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
The recommended storage temperature is (deg.C): ≤50°C
Keep container tightly sealed.
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

| 30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate | | |
|---|--|----------------------------------|
| Oral | DNEL/general population/Systemic effects/Long-term | 1.5 mg/kg/24h (consumer) |
| Dermal | DNEL / Workers / Systemic effects / Long-term | 4.2 mg/kg/24h (worker) |
| Inhalative | DNEL/general population/Systemic effects/Long-term | 1.5 mg/kg/24h (consumer) |
| | DNEL / Workers / Systemic effects / Long-term | 14.8 mg/m ³ (worker) |
| | DNEL/general population/Systemic effects/Long-term | 2.6 mg/m ³ (consumer) |
| 110-97-4 1,1'-iminodipropan-2-ol | | |
| Oral | DNEL/general population/Systemic effects/Long-term | 1.3 mg/kg/24h (consumer) |
| Dermal | DNEL / Workers / Local Effects / Long-term | 0.12 mg/cm ² (worker) |

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| | | |
|---|--|-------------------------------------|
| Inhalative | DNEL / Workers / Systemic effects / Long-term | 5 mg/kg/24h (worker) |
| | DNEL/general population/Systemic effects/Long-term | 6.3 mg/kg/24h (consumer) |
| 143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol | | |
| Oral | DNEL/general population/Systemic effects/Long-term | 50.25 mg/kg/24h (consumer) |
| | DNEL/general pop/Systemic effects/acute-short term | 103.4 mg/kg/24h (consumer) |
| Dermal | DNEL / Workers / Local Effects / Long-term | 5.65 mg/cm ² (worker) |
| | DNEL / Workers / Systemic effects / Long-term | 400 mg/kg/24h (worker) |
| Inhalative | DNEL/Workers/Systemic effects/acute-short term | 1,005 mg/kg/24h (worker) |
| | DNEL/Workers/local effects/acute-short term | 8.35 mg/cm ² (worker) |
| Inhalative | DNEL/general popul/Local effects/acute-short term | 4.173 mg/cm ² (consumer) |
| | DNEL/general population/Systemic effects/Long-term | 200 mg/kg/24h (consumer) |
| Inhalative | DNEL/general pop/Systemic effects/acute-short term | 502.5 mg/kg/24h (consumer) |
| | DNEL/general population/Local effects/Long-term | 2.823 mg/cm ² (consumer) |
| Inhalative | DNEL/general population/Local effects/Long-term | mg/kg/24h (consumer) |
| | DNEL / Workers / Systemic effects / Long-term | 24 mg/m ³ (worker) |
| Inhalative | DNEL/Workers/Systemic effects/acute-short term | 96 mg/m ³ (worker) |
| | DNEL/Workers/Local effects/acute-short term | 96 mg/m ³ (worker) |
| Inhalative | DNEL / Workers / Local Effects / Long-term | 30.5 mg/m ³ (worker) |
| | DNEL/general population/Systemic effects/Long-term | 12 mg/m ³ (consumer) |
| Inhalative | DNEL/general pop/Systemic effects/acute-short term | 48 mg/m ³ (consumer) |
| | DNEL/general pop/Local effects/acute-short term | 48 mg/m ³ (consumer) |
| Inhalative | DNEL/general population/Local effects/Long-term | 15.252 mg/m ³ (consumer) |

· PNECs

30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate

| | |
|--|--------------------------------------|
| PNEC / Aquatic organisms / Freshwater | 0.2112 mg/l (aquatic organisms) |
| PNEC / Aquatic organisms / Marine water | 0.0211 mg/l (aquatic organisms) |
| PNEC / Aquatic org/intermittent releases(freshwater) | 2.112 mg/l (aquatic organisms) |
| PNEC/Aquatic organisms/Sewage treatment plant/STP | 100 mg/l (aquatic organisms) |
| PNEC / Aquatic organisms / Sediment (freshwater) | 0.76 mg/kg (aquatic organisms) |
| PNEC / Aquatic organisms / Sediment (marine water) | 0.076 mg/kg (aquatic organisms) |
| PNEC / Terrestrial organism / Soil | 0.0283 mg/kg (terrestrial organisms) |

110-97-4 1,1'-iminodipropan-2-ol

| | |
|--|----------------------------------|
| PNEC / Aquatic organisms / Freshwater | 0.2777 mg/l (aquatic organisms) |
| PNEC / Aquatic organisms / Marine water | 0.02777 mg/l (aquatic organisms) |
| PNEC / Aquatic org/intermittent releases(freshwater) | 2.777 mg/l (aquatic organisms) |
| PNEC/Aquatic organisms/Sewage treatment plant/STP | 15,000 mg/l (aquatic organisms) |
| PNEC / Aquatic organisms / Sediment (freshwater) | 2.33 mg/kg (aquatic organisms) |
| PNEC / Aquatic organisms / Sediment (marine water) | 0.233 mg/kg (aquatic organisms) |

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| | | |
|---|--|--|
| | PNEC / Terrestrial organism / Soil | 0.303 mg/kg (terrestrial organisms) |
| 143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol | | |
| Oral | PNEC / Predators / Secondary poisoning | 525.5 mg/kg food (secondary poisoning (predators)) |
| | PNEC / Aquatic organisms / Freshwater | 100 mg/l (aquatic organisms) |
| | PNEC / Aquatic organisms / Marine water | 142.57 mg/l (aquatic organisms) |
| | PNEC/Aquatic organisms/Sewage treatment plant/STP | 199.5 mg/l (aquatic organisms) |
| | PNEC / Aquatic organisms / Sediment (freshwater) | 11.115 mg/kg (aquatic organisms) |
| | PNEC / Aquatic organisms / Sediment (marine water) | 1.111 mg/kg (aquatic organisms) |

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:** Not required.

· **Hand protection**

Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves** Use CR or NBR rubber gloves. Material thickness: 0.5 mm

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection** Goggles recommended during refilling

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Colour:**

Yellow

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

270 °C (DIN EN ISO 3405)

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

Not determined.

· **Lower:**

Not determined.

· **Upper:**

130 °C

· **Flash point:**

Not determined.

· **Decomposition temperature:**

Not determined.

· **pH**

Not determined.

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| | |
|--|---|
| · Viscosity: | |
| · Kinematic viscosity | 7 mm ² /s @ 40 °C (DIN 51562-1) |
| · Consistency | |
| · Dynamic: | Not determined. |
| · Solubility | |
| · water: | Fully miscible. |
| · Partition coefficient n-octanol/water (log value) | Not determined. |
| · Heat Capacity | |
| · Vapour pressure: | Not determined. |
| · Density and/or relative density | |
| · Density at 20 °C: | 1.06 g/cm ³ (ASTM D 4052) |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| · 9.2 Other information | |
| · Appearance: | |
| · Form: | Fluid |
| · Important information on protection of health and environment, and on safety. | |
| · Explosive properties: | Product does not present an explosion hazard. |
| · Solvent separation test: | |
| · VOC (EC) | 0.00 % |
| · Change in condition | |
| · Evaporation rate | Not determined. |
| · Information with regard to physical hazard classes | |
| · Explosives | Void |
| · Flammable gases | Void |
| · Aerosols | Void |
| · Oxidising gases | Void |
| · Gases under pressure | Void |
| · Flammable liquids | Void |
| · Flammable solids | Void |
| · Self-reactive substances and mixtures | Void |
| · Pyrophoric liquids | Void |
| · Pyrophoric solids | Void |
| · Self-heating substances and mixtures | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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- **Additional information:** The product is stable but hygroscopic.

*** SECTION 11: Toxicological information**

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

· **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate

| | | |
|--------|-------|-----------------------|
| Oral | LD50 | >2,000 mg/kg (rat) |
| | NOAEL | 1,000 mg/kg/24h (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |

110-97-4 1,1'-iminodipropan-2-ol

| | | |
|------------|----------|---------------------------------|
| Oral | LD50 | >2,000 mg/kg (rat) (OECD 401) |
| | NOAEL | 100-500 mg/kg/24h (rat) |
| Dermal | LD50 | 8,000 mg/kg (rabbit) (OECD 402) |
| | NOAEL | 100-750 mg/kg/24h (rat) |
| Inhalative | LC0 / 3h | 2.07 mg/l (mouse) |

143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol

| | | |
|------------|------------|------------------------------------|
| Oral | LD50 | 5,000-11,300 mg/kg (rat) |
| | NOAEL | 250-400 mg/kg/24h (rat) |
| | LOAEL | 1,000-1,200 mg/kg/24h (rat) |
| Dermal | LD50 | 3,540 mg/kg (rabbit) |
| | NOAEL | 200-4,000 mg/kg/24h (rat) |
| | | 1,000 mg/kg/24h (rabbit) |
| Inhalative | LC50 / 16h | 2.4 mg/l (rat) |
| | NOAEL | 94 mg/m ³ (rat) |
| | NOAEC | 120-152.52 mg/m ³ (rat) |
| | NOEC | 40 mg/m ³ (rat) |

- **Reproductive toxicity** Suspected of damaging fertility. Suspected of damaging the unborn child.

- **Additional toxicological information:**

The sweet taste can seduce children to drink large quantities; hence keep out of reach of children.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

*** SECTION 12: Ecological information**

- **12.1 Toxicity**

- **Aquatic toxicity:**

30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate

| | |
|------|--|
| LC50 | 222-1,010 mg/l/96h (fish) |
| LC50 | 222-1,010 mg/l/48h (fish) |
| LC50 | 222-1,010 mg/l/72h (aquatic organisms) |
| LC50 | 222-1,010 ppm/96h (fish) |
| EC50 | 1,000 mg/l/30min (microorganisms) |
| EC10 | 224.4 mg/l (algae) |
| EC10 | 500 mg/l/48h (aquatic invertebrates) |

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| | |
|------|--|
| EC50 | 211-960 mg/l/24h (aquatic invertebrates) |
| EC50 | 224-1,020 mg/l/72h (algae / cyanobacteria) |
| EC0 | 500 mg/l/48h (aquatic invertebrates) |
| EC50 | 211-960 mg/l/48h (aquatic invertebrates) |
| EC50 | 224.4 mg/l (algae) |
| NOEC | 224-1,020 mg/l/72h (algae / cyanobacteria) |

110-97-4 1,1'-iminodipropan-2-ol

| | |
|-------|--|
| LC50 | 1,466 mg/l/96h (fish) |
| LC0 | 1,000 mg/l/96h (fish) |
| LC100 | 2,150 mg/l/96h (fish) |
| EC0 | 125 mg/l/48h (aquatic invertebrates) |
| EC10 | 219 mg/l/72h (aquatic algae and cyanobacteria) |
| EC50 | 339 mg/l/72h (aquatic algae and cyanobacteria) |
| EC100 | 500 mg/l/48h (aquatic invertebrates) |
| EC50 | 277.7 mg/l/48h (aquatic invertebrates) |
| NOEC | 125 mg/l/72h (aquatic algae and cyanobacteria) |
| NOEC | 464 mg/l/96h (fish) |
| LOEC | 250 mg/l/72h (aquatic algae and cyanobacteria) |
| LOEC | 424 mg/kg/50d (terrestrial plants) |

143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol

| | |
|-------|--|
| LC50 | 2,182-14,257 mg/l/96h (fish) |
| LC0 | 2,150 mg/l/96h (fish) |
| LC100 | 4,600 mg/l/96h (fish) |
| LC50 | 1,740-5,521 mg/l/48h (aquatic invertebrates) |
| | 2,400 mg/l/48h (fish) |
| LC50 | 2,400-2,967 mg/l/24h (fish) |
| EC10 | 233.9-235.6 mg/l/21d (aquatic invertebrates) |
| EC50 | 174.5-3,167.5 mg/l/24h (aquatic invertebrates) |
| EC10 | 151-1,185 mg/l/72h (algae / cyanobacteria) |
| EC50 | 500-3,211 mg/l/72h (algae / cyanobacteria) |
| EC50 | 518.3 mg/l/21d (aquatic invertebrates) |
| EC0 | 500 mg/l/48h (aquatic invertebrates) |
| EC50 | 500-3,141.3 mg/l/48h (aquatic invertebrates) |
| NOEC | 97.7-174.6 mg/l/21d (aquatic invertebrates) |
| | 174.6 mg/l/21d (fish) |
| NOEC | 62.5-499 mg/l/72h (algae / cyanobacteria) |

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential

30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate

| | |
|-----------------------|-------------------------------------|
| Partition coefficient | 1 [---] (log Kow) (Bioaccumulation) |
|-----------------------|-------------------------------------|

143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol

| | |
|-----------------------|--|
| Partition coefficient | 0.51 [---] (log Kow) (Bioaccumulation) |
|-----------------------|--|

| | |
|------------------|--|
| Biodegradability | 85 % (28d) (Biodegradability) (OECD 301 A) |
|------------------|--|

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

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· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

· Additional ecological information:

· General notes:

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

* **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR/RID/ADN, ADN, IMDG, IATA Not classified as hazardous for transport

· 14.2 UN proper shipping name

· ADR/RID/ADN, ADN, IMDG, IATA Not classified as hazardous for transport

· 14.3 Transport hazard class(es)

· ADR/RID/ADN, ADN, IMDG, IATA

· Class Not classified as hazardous for transport

· 14.4 Packing group

· ADR/RID/ADN, IMDG, IATA Not classified as hazardous for transport

· 14.5 Environmental hazards:

· Marine pollutant:

No

· 14.6 Special precautions for user

Not applicable.

· 14.7 Maritime transport in bulk according to

IMO instruments

Not applicable.

· UN "Model Regulation":

Not classified as hazardous for transport

* **SECTION 15: Regulatory information**

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

· Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

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· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

· purity requirement

· Relevant phrases

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

· Department issuing SDS: Abteilung Produktsicherheit

· Abbreviations and acronyms:

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2

· * Data compared to the previous version altered.

Annex: Exposure scenario 1

· Short title of the exposure scenario Industrial use of brake fluids

· Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

· Product category PC17 Hydraulic fluids

· Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC20 Use of functional fluids in small devices

· Environmental release category

ERC7 Use of functional fluid at industrial site

ERC9a Widespread use of functional fluid (indoor)

ERC9b Widespread use of functional fluid (outdoor)

· Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

· Conditions of use

· Duration and frequency 5 workdays/week.

· Physical parameters

· Physical state Fluid

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- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleared packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

Annex: Exposure scenario 2

- **Short title of the exposure scenario** Professional use of brake fluids
- **Sector of Use**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC17 Hydraulic fluids
- **Process category**
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC20 Use of functional fluids in small devices
- **Environmental release category**
ERC9a Widespread use of functional fluid (indoor)
ERC9b Widespread use of functional fluid (outdoor)
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.

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- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

Annex: Exposure scenario 3

- **Short title of the exposure scenario** Private use of brake fluids
- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers
- **Product category** PC17 Hydraulic fluids
- **Process category**
 - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 - PROC20 Use of functional fluids in small devices
- **Environmental release category**
 - ERC9a Widespread use of functional fluid (indoor)
 - ERC9b Widespread use of functional fluid (outdoor)
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
 - **Duration and frequency** 5 workdays/week.
 - **Physical parameters**
 - **Physical state** Fluid
 - **Concentration of the substance in the mixture** The substance is main component.
 - **Other operational conditions**
 - **Other operational conditions affecting environmental exposure** No special measures required.
 - **Other operational conditions affecting consumer exposure** Not required.
 - **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
 - **Organisational protective measures** No special measures required.
 - **Technical protective measures** No special measures required.
 - **Personal protective measures** No special measures required.
 - **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
 - **Air** No special measures required.
 - **Water** No special measures required.
 - **Disposal measures** Ensure that waste is collected and contained.
 - **Disposal procedures** Dispose of product residues with household waste.
 - **Waste type** Partially emptied and uncleaned packaging
 - **Exposure estimation**
 - **Consumer** Not relevant for this Exposure Scenario.
 - **Guidance for downstream users** No further relevant information available.