

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

### 1.1 Product identifier

Trade name: **BRAKE FLUID DOT 4**

### 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.

Engine coolant

### 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](mailto: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

The product is not classified, according to the GB CLP regulation.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

### 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 listed below with nonhazardous additions.

#### Dangerous components:

|                            |                    |         |
|----------------------------|--------------------|---------|
| CAS: 111-46-6              | 2,2'-oxybisethanol | ≥5-≤10% |
| EINECS: 203-872-2          | Acute Tox. 4, H302 |         |
| Index number: 603-140-00-6 |                    |         |
| Reg.nr.: 01-2119457857-21  |                    |         |

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|                                                                                               |                                                                                                                                                                                                                      |            |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|                                                                                               | Reaktionsmasse aus 2-(2-(2-Butoxyethoxy)ethoxy)ethanol und 3,6,9,12-Tetraoxahexadecan-1-ol<br>Eye Dam. 1, H318<br>Specific concentration limits:<br>Eye Dam. 1; H318: C ≥ 30%<br>Eye Irrit. 2; H319: 20 % ≤ C < 30 % | ≥5-≤10%    |
| CAS: 143-22-6<br>EINECS: 205-592-6<br>Index number: 603-183-00-0<br>Reg.nr.: 01-2119531322-53 | 2-[2-(2-butoxyethoxy)ethoxy]ethanol<br>Eye Dam. 1, H318<br>Specific concentration limits:<br>Eye Dam. 1; H318: C ≥ 30%<br>Eye Irrit. 2; H319: 20 % ≤ C < 30 %                                                        | ≥2.5-≤7.5% |
| CAS: 1559-34-8<br>EINECS: 216-322-1<br>Reg.nr.: 01-2120768763-41                              | 3,6,9,12-tetraoxahexadecan-1-ol<br>Eye Irrit. 2, H319                                                                                                                                                                | ≥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**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **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.
- **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).
- **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.

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **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:**

#### **111-46-6 2,2'-oxybisethanol**

WEL Long-term value: 101 mg/m<sup>3</sup>, 23 ppm

#### · **DNELs**

#### **111-46-6 2,2'-oxybisethanol**

|            |                                                    |                                 |
|------------|----------------------------------------------------|---------------------------------|
| Dermal     | DNEL / Workers / Systemic effects / Long-term      | 43 mg/kg/24h (worker)           |
|            | DNEL/general population/Systemic effects/Long-term | 21 mg/kg/24h (consumer)         |
| Inhalative | DNEL / Workers / Systemic effects / Long-term      | 44 mg/m <sup>3</sup> (worker)   |
|            | DNEL / Workers / Local Effects / Long-term         | 60 mg/m <sup>3</sup> (worker)   |
|            | DNEL/general population/Systemic effects/Long-term | 12 mg/m <sup>3</sup> (consumer) |
|            | DNEL/general population/Local effects/Long-term    | 12 mg/m <sup>3</sup> (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 <sup>2</sup> (worker)    |
|            | DNEL / Workers / Systemic effects / Long-term      | 400 mg/kg/24h (worker)              |
|            | DNEL/Workers/Systemic effects/acute-short term     | 1,005 mg/kg/24h (worker)            |
|            | DNEL/Workers/local effects/acute-short term        | 8.35 mg/cm <sup>2</sup> (worker)    |
|            | DNEL/general popul/Local effects/acute-short term  | 4.173 mg/cm <sup>2</sup> (consumer) |
|            | DNEL/general population/Systemic effects/Long-term | 200 mg/kg/24h (consumer)            |
|            | 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 <sup>2</sup> (consumer) |
|            | DNEL/general population/Local effects/Long-term    | mg/kg/24h (consumer)                |
|            | DNEL / Workers / Systemic effects / Long-term      | 24 mg/m <sup>3</sup> (worker)       |
| Inhalative | DNEL/Workers/Systemic effects/acute-short term     | 96 mg/m <sup>3</sup> (worker)       |
|            | DNEL/Workers/Local effects/acute-short term        | 96 mg/m <sup>3</sup> (worker)       |
|            | DNEL / Workers / Local Effects / Long-term         | 30.5 mg/m <sup>3</sup> (worker)     |
|            | DNEL/general population/Systemic effects/Long-term | 12 mg/m <sup>3</sup> (consumer)     |
|            | DNEL/general pop/Systemic effects/acute-short term | 48 mg/m <sup>3</sup> (consumer)     |
|            | DNEL/general pop/Local effects/acute-short term    | 48 mg/m <sup>3</sup> (consumer)     |
|            | DNEL/general population/Local effects/Long-term    | 15.252 mg/m <sup>3</sup> (consumer) |
|            |                                                    |                                     |

#### **1559-34-8 3,6,9,12-tetraoxahexadecan-1-ol**

|      |                                                    |                        |
|------|----------------------------------------------------|------------------------|
| Oral | DNEL/general population/Systemic effects/Long-term | 3 mg/kg/24h (consumer) |
|------|----------------------------------------------------|------------------------|

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**· PNECs****111-46-6 2,2'-oxybisethanol**

|  |                                                         |                                    |
|--|---------------------------------------------------------|------------------------------------|
|  | PNEC / Aquatic organisms / Freshwater                   | 10 mg/l (aquatic organisms)        |
|  | PNEC / Aquatic organisms / Marine water                 | 1 mg/l (aquatic organisms)         |
|  | PNEC / Aquatic org / intermittent releases (freshwater) | 10 mg/l (aquatic organisms)        |
|  | PNEC / Aquatic organisms / Sewage treatment plant / STP | 199.5 mg/l (aquatic organisms)     |
|  | PNEC / Aquatic organisms / Sediment (freshwater)        | 20.9 mg/kg (aquatic organisms)     |
|  | PNEC / Aquatic organisms / Sediment (marine water)      | 2.09 mg/kg (aquatic organisms)     |
|  | PNEC / Terrestrial organism / Soil                      | 1.53 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)                    |

**1559-34-8 3,6,9,12-tetraoxahexadecan-1-ol**

|  |                                                         |                                    |
|--|---------------------------------------------------------|------------------------------------|
|  | PNEC / Aquatic organisms / Freshwater                   | 2.5 mg/l (aquatic organisms)       |
|  | PNEC / Aquatic organisms / Marine water                 | 0.25 mg/l (aquatic organisms)      |
|  | PNEC / Aquatic org / intermittent releases (freshwater) | 25 mg/l (aquatic organisms)        |
|  | PNEC / Aquatic organisms / Sediment (freshwater)        | 9.49 mg/kg (aquatic organisms)     |
|  | PNEC / Aquatic organisms / Sediment (marine water)      | 0.95 mg/kg (aquatic organisms)     |
|  | PNEC / Terrestrial organism / Soil                      | 0.46 mg/kg (terrestrial 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.

Do not inhale gases / fumes / aerosols.

**· Respiratory protection:** Not required.**· Hand protection**

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**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **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

- |                                                                   |                                      |
|-------------------------------------------------------------------|--------------------------------------|
| · <b>General Information</b>                                      |                                      |
| · <b>Physical state</b>                                           | Liquid                               |
| · <b>Colour:</b>                                                  | yellow to amber                      |
| · <b>Odour:</b>                                                   | Characteristic                       |
| · <b>Odour threshold:</b>                                         | Not determined.                      |
| · <b>Melting point/freezing point:</b>                            | Undetermined.                        |
| · <b>Boiling point or initial boiling point and boiling range</b> | >260 °C (DIN EN ISO 3405)            |
| · <b>Flammability</b>                                             | Not applicable.                      |
| · <b>Lower and upper explosion limit</b>                          |                                      |
| · <b>Lower:</b>                                                   | Not determined.                      |
| · <b>Upper:</b>                                                   | Not determined.                      |
| · <b>Flash point:</b>                                             | 134 °C                               |
| · <b>Decomposition temperature:</b>                               | Not determined.                      |
| · <b>pH</b>                                                       | Not determined.                      |
| · <b>Viscosity:</b>                                               |                                      |
| · <b>Kinematic viscosity</b>                                      | 11 mm <sup>2</sup> /s @ 20 °C        |
| · <b>Consistency</b>                                              |                                      |
| · <b>Dynamic:</b>                                                 | Not determined.                      |
| · <b>Solubility</b>                                               |                                      |
| · <b>water:</b>                                                   | Fully miscible.                      |
| · <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined.                      |
| · <b>Heat Capacity</b>                                            |                                      |
| · <b>Vapour pressure:</b>                                         | Not determined.                      |
| · <b>Density and/or relative density</b>                          |                                      |
| · <b>Density at 20 °C:</b>                                        | 1.07 g/cm <sup>3</sup> (ASTM D 4052) |
| · <b>Relative density</b>                                         | Not determined.                      |
| · <b>Vapour density</b>                                           | Not determined.                      |

### · 9.2 Other information

- |                                                                                        |                                               |
|----------------------------------------------------------------------------------------|-----------------------------------------------|
| · <b>Appearance:</b>                                                                   |                                               |
| · <b>Form:</b>                                                                         | Fluid                                         |
| · <b>Important information on protection of health and environment, and on safety.</b> |                                               |
| · <b>Explosive properties:</b>                                                         | Product does not present an explosion hazard. |
| · <b>Change in condition</b>                                                           |                                               |
| · <b>Evaporation rate</b>                                                              | Not determined.                               |

### · Information with regard to physical hazard classes

- |                               |      |
|-------------------------------|------|
| · <b>Explosives</b>           | Void |
| · <b>Flammable gases</b>      | Void |
| · <b>Aerosols</b>             | Void |
| · <b>Oxidising gases</b>      | Void |
| · <b>Gases under pressure</b> | Void |
| · <b>Flammable liquids</b>    | Void |
| · <b>Flammable solids</b>     | Void |

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|                                                                             |      |
|-----------------------------------------------------------------------------|------|
| · 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.

### 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:**

**111-46-6 2,2'-oxybisethanol**

|            |           |                             |
|------------|-----------|-----------------------------|
| Oral       | LD50      | 1,000 mg/kg (rat)           |
|            | NOAEL     | 10,000 mg/kg (rat)          |
|            | NOAEL     | 128-300 mg/kg/24h (rat)     |
|            | LOAEL     | 40,000 mg/kg (rat)          |
| Dermal     | LD50      | 13,300 mg/kg (rabbit)       |
|            | NOAEL     | 2,200-4,400 mg/kg/24h (dog) |
| Inhalative | LC50 / 4h | >4.6 mg/l (rat)             |

**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)   |
| Inhalative |            | 1,000 mg/kg/24h (rabbit)    |
|            | LC50 / 16h | 2.4 mg/l (rat)              |
|            | NOAEL      | 94 mg/m3 (rat)              |
|            | NOAEC      | 120-152.52 mg/m3 (rat)      |
|            | NOEC       | 40 mg/m3 (rat)              |

**1559-34-8 3,6,9,12-tetraoxahexadecan-1-ol**

|      |      |                              |
|------|------|------------------------------|
| Oral | LD50 | 2,630 mg/kg (rat) (OECD 401) |
|------|------|------------------------------|

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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

|                                          |
|------------------------------------------|
| · <b>Endocrine disrupting properties</b> |
|------------------------------------------|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · **Aquatic toxicity:**

##### **111-46-6 2,2'-oxybisethanol**

|      |                                               |
|------|-----------------------------------------------|
| LC50 | 75.2 mg/l/96h (fish)                          |
| LC50 | 1,500 mg/l/28d (fish)                         |
| EC50 | 10,000 mg/l/24h (aquatic invertebrates)       |
| EC50 | 6,500-13,000 mg/l/96h (algae / cyanobacteria) |
| EC50 | 33,911 mg/l/21d (aquatic invertebrates)       |
| NOEC | 7,500-15,000 mg/l/21d (aquatic invertebrates) |
| NOEC | 100 mg/l/72h (algae / cyanobacteria)          |
| NOEC | 8,590-24,000 mg/l/7d (aquatic invertebrates)  |
|      | 15,380-32,000 mg/l/7d (fish)                  |

##### **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)      |

##### **1559-34-8 3,6,9,12-tetraoxahexadecan-1-ol**

|      |                       |
|------|-----------------------|
| LC50 | 1,800 mg/l/96h (fish) |
| LC0  | 1,000 mg/l/96h (fish) |

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|      |                                                        |
|------|--------------------------------------------------------|
| LC50 | 1,800 mg/l/48h (fish)                                  |
| LC50 | 1,800 mg/l/72h (fish)                                  |
| LC0  | 1,800 mg/l/24h (fish)                                  |
| EC10 | 1,995 mg/l/30min (microorganisms)                      |
| EC50 | 3,200 mg/l/24h (aquatic invertebrates)                 |
| EC50 | 1,075-2,490 mg/l/72h (aquatic algae and cyanobacteria) |
| EC50 | 1,054-1,686 mg/l/48h (aquatic algae and cyanobacteria) |
|      | 3,200 mg/l/48h (aquatic invertebrates)                 |
| NOEC | 1,800 mg/l/48h (aquatic invertebrates)                 |

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential**

## 111-46-6 2,2'-oxybisethanol

|                       |                                                |
|-----------------------|------------------------------------------------|
| Partition coefficient | ≤1.98 [---] (log Kow) (Bioaccumulation)        |
| Biodegradability      | 90-100 % (28d) (Biodegradability) (OECD 301 A) |

## 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.

· **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:**

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, IMDG, IATA**

Not classified as hazardous for transport

· **14.2 UN proper shipping name**

· **ADR/RID/ADN, IMDG, IATA**

Not classified as hazardous for transport

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- |                                                                       |                                           |
|-----------------------------------------------------------------------|-------------------------------------------|
| · <b>14.3 Transport hazard class(es)</b>                              |                                           |
| · <b>ADR/RID/ADN, ADN, IMDG, IATA</b>                                 |                                           |
| · <b>Class</b>                                                        | Not classified as hazardous for transport |
| · <b>14.4 Packing group</b>                                           |                                           |
| · <b>ADR/RID/ADN, IMDG, IATA</b>                                      | Not classified as hazardous for transport |
| · <b>14.5 Environmental hazards:</b>                                  | Not applicable.                           |
| · <b>14.6 Special precautions for user</b>                            | Not applicable.                           |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.                           |
| · <b>UN "Model Regulation":</b>                                       | 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.
- **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**  
H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.
- **Department issuing SDS:** Abteilung Produktsicherheit
- **Abbreviations and acronyms:**  
ATE: Acute toxicity estimate values  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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### Annex: Exposure scenario 1

- **Short title of the exposure scenario** *Industrial use of coolants*
- **Sector of Use**  
*SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites*
- **Product category**  
*PC4 Anti-Freeze and de-icing products*  
*PC16 Heat transfer 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*
- **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.*

### Annex: Exposure scenario 2

- **Short title of the exposure scenario** *Professional use of coolants*
- **Sector of Use**  
*SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)*
- **Product category**  
*PC4 Anti-Freeze and de-icing products*  
*PC16 Heat transfer fluids*

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- **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.

### Annex: Exposure scenario 3

- **Short title of the exposure scenario** Private use of coolants
- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers
- **Product category**
  - PC4 Anti-Freeze and de-icing products
  - PC16 Heat transfer 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)

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**Safety data sheet**  
**according to UK REACH**

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- **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.

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