### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 3-7-2018 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Trade name : Brake Fluid DOT 4
Product code : CB-HY2501
Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

Use of the substance/mixture : brake fluids

### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Cyberoil Sunikersstraat P.O. Box 1010 the Netherlands T +31620104978 mailto:

### 1.4. Emergency telephone number

Emergency number : +44 18 65 407333

| Country        | Organisation/Company  | Address                     | Emergency number | Comment |
|----------------|---|-----------------------------|------------------|---------|
| United Kingdom | National Poisons Information<br>Service (Cardiff Centre)<br>Gwenwyn Ward, Llandough<br>Hospital | Penarth<br>CF64 2XX Cardiff | 0344 892 0111    |         |

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Serious eye damage/eye irritation, Category 2 H319

Full text of H statements : see section 16

### Adverse physicochemical, human health and environmental effects

Causes serious eye irritation.

### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P264 - Wash hands thoroughly after handling.

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

No additional information available

### **SECTION 3: Composition/information on ingredients**

3.1. Substances

Not applicable

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#### 3.2. Mixtures

| Name   | Product identifier   | %       | Classification according to<br>Regulation (EC) No.<br>1272/2008 [CLP] |
|--|--|---------|---|
| Ethanol, 2-butoxy-, manufacture of, by-products from | (CAS-No.) 161907-77-3<br>(EC-No.) 310-287-7<br>(REACH-no) 01-2119475115-41                             | 25 - 50 | Eye Dam. 1, H318  |
| 2,2'-oxydiethanol                                    | (CAS-No.) 111-46-6<br>(EC-No.) 203-872-2<br>(EC Index-No.) 603-140-00-6<br>(REACH-no) 01-2119457857-21 | 5 - 10  | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373                          |
| Dihydro-3-(tetrapropenyl)furan-2,5-dione             | (CAS-No.) 26544-38-7<br>(EC-No.) 247-781-6<br>(REACH-no) 01-2119979080-37                              | < 0,1   | Eye Irrit. 2, H319<br>Skin Sens. 1A, H317<br>Aquatic Chronic 4, H413  |

Full text of H-statements: see section 16

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after eye contact : Eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear

personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 3.1. Control parameters

| . 1. Control parameters      |                      |                   |  |
|------------------------------|----------------------|-------------------|--|
| 2,2'-oxydiethanol (111-46-6) |                      |                   |  |
| United Kingdom               | Local name           | 2,2'-Oxydiethanol |  |
| United Kingdom               | WEL TWA (mg/m³)      | 101 mg/m³         |  |
| United Kingdom               | WEL TWA (ppm)        | 23 ppm            |  |
| United Kingdom               | Regulatory reference | EH40. HSE         |  |

### 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

| Hand protection:  |   |   |                |             |          |
|-------------------|---|---|----------------|-------------|----------|
| Protective gloves |   |   |                |             |          |
| Туре              | Material  | Permeation  | Thickness (mm) | Penetration | Standard |
| Reusable gloves   | Nitrile rubber (NBR),<br>Neoprene rubber<br>(HNBR), Viton® II | 4 (> 120 minutes), 5 (> 240 minutes), 6 (> 480 minutes) | >=0,35         | 3 (> 0.65)  | EN 374   |

### Eye protection:

Safety glasses

| Туре           | Use     | Characteristics | Standard |
|----------------|---------|-----------------|----------|
| Safety glasses | Droplet | clear           | EN 166   |

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):





### **Environmental exposure controls:**

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : colourless to slightly yellow.

Odour : characteristic.
Odour threshold : No data available

pH : 7 - 11,5

Relative evaporation rate (butylacetate=1) : No data available

Melting point : -50 °C

Freezing point : No data available Boiling point : >  $260 \, ^{\circ}\text{C}$ 

Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Density : 1,02 - 1,09 g/cm<sup>3</sup> Solubility : Water: Miscible

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Log Pow : No data available
Viscosity, kinematic : 15 mm²/s @ 20°C
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

### Ethanol, 2-butoxy-, manufacture of, by-products from (161907-77-3)

| Ethanol, 2-butoxy-, manufacture of, by-products from (101907-17-5) |  | s nom (101907-77-3) |
|--|--|---------------------|
|  | LD50 oral rat                              | ≈ 2630 mg/kg        |
|  | LD50 dermal rabbit                         | ≈ 3540 mg/kg        |
|  | Skin corresion/irritation • Not classified |                     |

Skin corrosion/irritation : Not classified pH: 7 - 11,5

Serious eye damage/irritation : Causes serious eye irritation.

pH: 7 - 11,5

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

### **Brake Fluid DOT 4**

Viscosity, kinematic 15 mm²/s @ 20°C

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term

adverse effects in the environment.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

# Ethanol, 2-butoxy-, manufacture of, by-products from (161907-77-3)

| LC50 fish 1        | > 1800 mg/l (96h) [OECD 203]                          |  |
|--------------------|---|--|
| EC50 Daphnia 1     | > 3200 mg/l (48h, Daphnia magna) [OECD 202]           |  |
| EC50 72h algae (1) | 2490 mg/l (72h, Scenedesmus capricornutum) [OECD 201] |  |

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### 12.2. Persistence and degradability

Ethanol, 2-butoxy-, manufacture of, by-products from (161907-77-3)

Biodegradation 76 % (2,5 mg/l, 28d) [OECD 301D]

#### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                          | IMDG           | IATA           | ADN            | RID            |  |
|------------------------------|----------------|----------------|----------------|----------------|--|
| 14.1. UN number              |                |                |                |                |  |
| Not applicable               | Not applicable | Not applicable | Not applicable | Not applicable |  |
| 14.2. UN proper shipping     | name           |                |                |                |  |
| Not applicable               | Not applicable | Not applicable | Not applicable | Not applicable |  |
| 14.3. Transport hazard c     | lass(es)       |                |                |                |  |
| Not applicable               | Not applicable | Not applicable | Not applicable | Not applicable |  |
| 14.4. Packing group          |                |                |                |                |  |
| Not applicable               | Not applicable | Not applicable | Not applicable | Not applicable |  |
| 14.5. Environmental haz      | ards           |                |                |                |  |
| Not applicable               | Not applicable | Not applicable | Not applicable | Not applicable |  |
| No supplementary information | n available    |                | 11             |                |  |

### 14.6. Special precautions for user Overland transport

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

### Inland waterway transport

Not applicable

### Rail transport

Not applicable

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

Not applicable

### **SECTION 15: Regulatory information**

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

### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Directive 2012/18/EU (SEVESO III)

### 15.1.2. National regulations

No additional information available

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## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

| SECTION 16: Other informa   | ition   |
|-----------------------------|---|
| Abbreviations and acronyms: |   |
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways   |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| EC50                        | Median effective concentration  |
| IARC                        | International Agency for Research on Cancer   |
| IATA                        | International Air Transport Association   |
| IMDG                        | International Maritime Dangerous Goods  |
| LC50                        | Median lethal concentration   |
| LD50                        | Median lethal dose  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |
| NOAEL                       | No-Observed Adverse Effect Level  |
| NOEC                        | No-Observed Effect Concentration  |
| OECD                        | Organisation for Economic Co-operation and Development  |
| PBT                         | Persistent Bioaccumulative Toxic  |
| PNEC                        | Predicted No-Effect Concentration   |
| REACH                       | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| STP                         | Sewage treatment plant  |
| TLM                         | Median Tolerance Limit  |
| SDS                         | Safety Data Sheet   |
| vPvB                        | Very Persistent and Very Bioaccumulative  |

| Full text of H- and EUH-statements: |  |  |  |
|-------------------------------------|--|--|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                  |  |  |
| Aquatic Chronic 4                   | Hazardous to the aquatic environment — Chronic Hazard, Category 4  |  |  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                      |  |  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                      |  |  |
| Skin Sens. 1A                       | Skin sensitisation, category 1A                                    |  |  |
| STOT RE 2                           | Specific target organ toxicity — Repeated exposure, Category 2     |  |  |
| H302                                | Harmful if swallowed.  |  |  |
| H317                                | May cause an allergic skin reaction.                               |  |  |
| H318                                | Causes serious eye damage.   |  |  |
| H319                                | Causes serious eye irritation.                                     |  |  |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |  |  |
| H413                                | May cause long lasting harmful effects to aquatic life.            |  |  |

SDS EU (REACH Annex II)

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product