

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 14.07.2023

Version number 14 (replaces version 13)

Revision: 13.02.2023

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

· **1.1 Product identifier**

· **Trade name:** TRW DOT 4 Brake Fluid

· **Article number:**

4204401, 4204405, 4204450, PFB104, PFB104i, PFB104i2, PFB401, PFB401AP, PFB401CE, PFB401IR, PFB401RE, PFB401SE, PFB405, PFB405AP, PFB405CE, PFB405IR, PFB405RE, PFB405SE, PFB420, PFB420AE, PFB420DR, PFB420DRAE, PFB425, PFB425AP, PFB425ENG, PFB425FRA, PFB425GER, PFB425MXC, PFB425POL, PFB425POR, PFB425ROM, PFB425RUL, PFB425RUS, PFB450, PFB450AP, PFB450CE, PFB450IR, PFB450MXC, PFB450RE, PFB450SE, PFB455.SQ, PFB480AP, PFB490MXC

· **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** Brake fluid

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

· **Manufacturer/Supplier:**

ZF Aftermarket UK Ltd.
Abbeyfield Road
Lenton
Nottingham, NG7 2SX
Tel +44 333 240 1123
Fax +44 115 986 92 61
<https://www.zf.com>

· **Informing department:**

Phone: +49 7541 77 0

E-Mail adress of the competent person for the safety data sheet:

reach@dekra.com

· **1.4 Emergency telephone number:**

Poison Information Center Munich

Phone: +49 (0) 89 - 19 240

Information in German and English

SECTION 2: Hazards identification

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

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



health hazard

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



Eye Irrit. 2 H319 Causes serious eye irritation.

· **2.2 Label elements**

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

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

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· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

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

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

· **Hazard statements**

H319 Causes serious eye irritation.

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

· **Precautionary statements**

P102 Keep out of reach of children.

P280 Wear protective gloves / 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.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

P405 Store locked up.

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

· **Information pertaining to particular dangers for man and environment**

There are analysis results available for this product or a product with a comparable composition which show an eye irritation but not an eye corrosion. This product is classified and labelled according to the analysis results.

· **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 the substances listed below including additives not requiring identification.

Added are corrosion and oxidation inhibitors.

· **Dangerous components:**

| | | |
|---|---|--------------|
| CAS: 143-22-6 EINECS: 205-592-6 Reg.nr.: 01-2119475107-38-X | 2-[2-(2-butoxyethoxy)ethoxy]ethanol ☠ Eye Dam. 1, H318 Specific concentration limits: Eye Dam. 1; H318: C ≥ 30 % Eye Irrit. 2; H319: 20 % ≤ C < 30 % | ≥ 30 - ≤ 50% |
| CAS: 30989-05-0 EINECS: 250-418-4 Reg.nr.: 01-2119462824-33-X | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate ☠ Repr. 2, H361fd | 10 - 25% |
| CAS: 111-46-6 EINECS: 203-872-2 Reg.nr.: 01-2119457857-21-X | 2,2'-oxybisethanol ☠ Acute Tox. 4, H302 | 2.5 - 10% |

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| | | |
|--|--|-------------|
| CAS: 1559-34-8 EINECS: 216-322-1 Reg.nr.: 01-2120768763-41-X | 3,6,9,12-tetraoxahexadecan-1-ol Eye Irrit. 2, H319 | 10% |
| CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44-X | 2-(2-butoxyethoxy)ethanol Eye Irrit. 2, H319 | ≥ 0 - < 10% |
| CAS: 111-77-3 EINECS: 203-906-6 Reg.nr.: 01-2119475100-52-X | Dowanol DM Repr. 2, H361d Specific concentration limit: Repr. 1B; H360D: C ≥ 3 % | ≤ 1% |

• **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

Personal protection for the First Aider.

Instantly remove any clothing contaminated by the product.

• **After inhalation** Supply fresh air; consult doctor in case of symptoms.

• After skin contact

Wash with water and soap.

If skin irritation continues, consult a doctor.

• After eye contact

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.

In case of permanent aches and pains please go and see the doctor.

• After swallowing

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage).

• 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

• **Danger** Danger of kidney damage.

• 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

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

• **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

• 5.2 Special hazards arising from the substance or mixture

Inhalation of combustion gases may cause serious health hazards.

Formation of flammable mixtures of vapours with air possible.

• 5.3 Advice for firefighters

• **Protective equipment:** Wear self-contained breathing apparatus.

• Additional information

Remove goods in stock from incendiary zone, if possible.

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Use water to keep fire exposed containers cool.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with the product.

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

- **6.2 Environmental precautions:**

Prevent from spreading (e.g. by damming-in or oil barriers).

Do not allow to enter drainage system, surface or ground water.

Inform respective authorities in case product reaches water or sewage system.

- **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of contaminated material as waste according to section 13.

Complete cleaning with water.

- **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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Prevent formation of aerosols.

Keep containers tightly sealed.

Don't eat, drink or smoke while working.

Avoid contact with eyes and skin.

- **Information about protection against explosions and fires:**

The product forms flammable fumes when heated.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and containers:** Store only in the original container.

- **Information about storage in one common storage facility:** Store away from oxidising agents.

- **Further information about storage conditions:**

Keep container tightly sealed.

Store container in a well ventilated position.

Store under dry conditions.

- **7.3 Specific end use(s)** Brake fluid

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

WEL: workplace exposure limit

OEL: Occupational Exposure Limit

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| 111-46-6 2,2'-oxybisethanol | | |
|--|---|---------------------------------|
| WEL (Great Britain) | Long-term value: 101 mg/m ³ , 23 ppm | |
| OEL (Ireland) | Long-term value: 100 mg/m ³ , 23 ppm | |
| 112-34-5 2-(2-butoxyethoxy)ethanol | | |
| WEL (Great Britain) | Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm | |
| IOELV (European Union) | Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm | |
| OEL (Ireland) | Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm IOELV | |
| 111-77-3 Dowanol DM | | |
| WEL (Great Britain) | Long-term value: 50.1 mg/m ³ , 10 ppm Sk | |
| IOELV (European Union) | Long-term value: 50.1 mg/m ³ , 10 ppm Skin | |
| OEL (Ireland) | Long-term value: 50.1 mg/m ³ , 10 ppm Sk, IOELV | |
| DNELs | | |
| 143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol | | |
| Oral | DNEL (consumer, long-term, systemic) | 12.5 mg/kg bw/day (human) |
| 30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | | |
| Oral | DNEL (consumer, long-term, systemic) | 1.5 mg/kg bw/day (human) |
| Dermal | DNEL (worker, long-term, systemic) | 4.2 mg/kg bw/day (human) |
| | DNEL (consumer, long-term, systemic) | 1.5 mg/kg bw/day (human) |
| Inhalative | DNEL (worker, long-term, systemic) | 14.8 mg/m ³ (human) |
| | DNEL (consumer, long-term, systemic) | 2.6 mg/m ³ (human) |
| 111-46-6 2,2'-oxybisethanol | | |
| Dermal | DNEL (worker, long-term, systemic) | 43 mg/kg bw/day (human) |
| | DNEL (consumer, long-term, systemic) | 21 mg/kg bw/day (human) |
| Inhalative | DNEL (worker, long-term, systemic) | 44 mg/m ³ (human) |
| | DNEL (consumer, long-term, systemic) | 12 mg/m ³ (human) |
| | DNEL (worker, short-term, local) | 60 mg/m ³ (human) |
| | DNEL (consumer, long-term, local) | 12 mg/m ³ (human) |
| 1559-34-8 3,6,9,12-tetraoxahexadecan-1-ol | | |
| Oral | DNEL (consumer, long-term, systemic) | 3 mg/kg bw/day (human) |
| 112-34-5 2-(2-butoxyethoxy)ethanol | | |
| Oral | DNEL (consumer, long-term, systemic) | 6.25 mg/kg bw/day (human) |
| Inhalative | DNEL (worker, short-term, local) | 101.2 mg/m ³ (human) |
| | DNEL (worker, long-term, local) | 67.5 mg/m ³ (human) |
| 111-77-3 Dowanol DM | | |
| Oral | DNEL (consumer, long-term, systemic) | 7.5 mg/kg bw/day (human) |

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| | | |
|------------|---------------------------------------|--------------------------------|
| Dermal | DNEL (worker, long-term, systemic) | 2.22 mg/kg bw/day (human) |
| | DNEL (consumer, short-term, systemic) | 1.33 mg/kg bw/day (human) |
| Inhalative | DNEL (worker, long-term, systemic) | 50.1 mg/m ³ (human) |
| | DNEL (consumer, long-term, systemic) | 30.1 mg/m ³ (human) |

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

| | |
|-----------------------------------|--------------------------|
| PNEC aqua (freshwater) | 2 mg/L (.) |
| PNEC aqua (marine water) | 0.2 mg/L (.) |
| PNEC STP - Sewage Treatment Plant | 200 mg/L (.) |
| PNEC soil | 0.47 mg/kg soil dw (.) |
| PNEC sediment (freshwater) | 7.7 mg/kg sedim. dw (.) |
| PNEC sediment (marine water) | 0.77 mg/kg sedim. dw (.) |
| PNEC oral | 111 mg/kg food (.) |

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

| | |
|------------------------------|--------------------------|
| PNEC aqua (freshwater) | 2.5 mg/L (.) |
| PNEC aqua (marine water) | 0.25 mg/L (.) |
| PNEC soil | 0.46 mg/kg soil dw (.) |
| PNEC sediment (freshwater) | 9.49 mg/kg sedim. dw (.) |
| PNEC sediment (marine water) | 0.95 mg/kg sedim. dw (.) |

112-34-5 2-(2-butoxyethoxy)ethanol

| | |
|-----------------------------------|--------------------------|
| PNEC aqua (freshwater) | 1.1 mg/L (.) |
| PNEC aqua (marine water) | 0.11 mg/L (.) |
| PNEC soil | 0.32 mg/kg soil dw (.) |
| PNEC sediment (freshwater) | 4.4 mg/kg sedim. dw (.) |
| PNEC sediment (marine water) | 0.44 mg/kg sedim. dw (.) |
| PNEC aqua (intermittent releases) | 11 mg/L (.) |
| PNEC oral | 56 mg/kg food (.) |

111-77-3 Dowanol DM

| | |
|-----------------------------------|--------------------------|
| PNEC aqua (freshwater) | 12 mg/L (.) |
| PNEC aqua (marine water) | 1.2 mg/L (.) |
| PNEC STP - Sewage Treatment Plant | 10,000 mg/L (.) |
| PNEC soil | 2.1 mg/kg soil dw (.) |
| PNEC sediment (freshwater) | 44.4 mg/kg sedim. dw (.) |
| PNEC sediment (marine water) | 0.44 mg/kg sedim. dw (.) |
| PNEC aqua (intermittent releases) | 12 mg/L (.) |
| PNEC oral | 90 mg/kg food (.) |

· Additional information: The lists that were valid during the compilation were used as basis.**· 8.2 Exposure controls****· Individual protection measures, such as personal protective equipment****· General protective and hygienic measures**

Take off all contaminated clothing immediately.

Wash hands during breaks and at the end of the work.

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Avoid contact with the eyes.

Breathing equipment:

Not necessary if room is well-ventilated.

Use breathing protection only when aerosol or mist is formed.

Filter A/P2.

Hand protection Use gloves of stable material (i.e. nitril rubber).**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.

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 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

Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

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

| | |
|---|-----------------------|
| • Colour: | Amber coloured |
| • Odour: | Mild |
| • Odour threshold: | Not determined. |
| • Melting point/freezing point: | < -50 °C (SAE J 1703) |
| • Boiling point or initial boiling point and boiling range | > 260 °C (SAE J 1703) |
| • Flammability | Not applicable. |
| • Lower and upper explosion limit | |
| • Lower: | Not determined. |
| • Flash point: | > 100 °C (IP 35) |
| • Auto-ignition temperature: | > 300 °C (ASTM D 286) |
| • Decomposition temperature: | Not determined. |
| • SADT | |
| • pH at 20 °C | 7 - 10.5 (SAE J 1703) |
| • Viscosity: | |
| • Kinematic viscosity | Not determined. |
| • dynamic at 20 °C: | 7 mPas (ASTM D 445) |
| • Solubility | |
| • Water: | Fully miscible |
| • Partition coefficient n-octanol/water (log value) | < 2 log POW |
| • Vapour pressure at 20 °C: | < 2 hPa |

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| | |
|---|--|
| <ul style="list-style-type: none">· Density and/or relative density· Density at 20 °C· Vapour density | 1.02 - 1.07 g/cm ³ (DIN 51757) Not determined. |
| <ul style="list-style-type: none">· 9.2 Other information· Appearance:· Form:· Important information on protection of health and environment, and on safety.· Self-inflammability:· Explosive properties:· Solvent content:· Organic solvents:· Change in condition· Evaporation rate | Fluid Product is not selfigniting. Product is not explosive. 13.8 % Not determined. |
| <ul style="list-style-type: none">· Information with regard to physical hazard classes· Explosives· Flammable gases· Aerosols· Oxidising gases· Gases under pressure· Flammable liquids· Flammable solids· Self-reactive substances and mixtures· Pyrophoric liquids· Pyrophoric solids· Self-heating substances and mixtures· Substances and mixtures, which emit flammable gases in contact with water· Oxidising liquids· Oxidising solids· Organic peroxides· Corrosive to metals· Desensitised explosives | Void Void Void Void Void Void Void Void Void Void Void Void Void Void Void Void Void Void 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**
Possible formation of peroxide
Reacts with light alloys to form hydrogen
- **10.4 Conditions to avoid** Brake fluids should never be contaminated with any other substance.
- **10.5 Incompatible materials:** Avoid contact with strong oxidizing agents.

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10.6 Hazardous decomposition products:

None in case of intended use and storage in compliance with instructions.

*** 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 that are relevant for classification:****143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol**

Oral LD50 5,170 mg/kg (rat)

Dermal LD50 3,540 mg/kg (rabbit)

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

Oral LD50 > 2,000 mg/kg (rat) (OECD 401)

Dermal LD50 > 2,000 mg/kg (rat) (OECD 402)

111-46-6 2,2'-oxybisethanol

Oral LD50 16,500 mg/kg (rat)

Dermal LD50 13,300 mg/kg (rabbit)

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

Oral LD50 2,630 mg/kg (rat)

Dermal LD50 3,540 mg/kg (rabbit)

112-34-5 2-(2-butoxyethoxy)ethanol

Oral LD50 5,660 mg/kg (rat)

Dermal LD50 2,764 mg/kg (rabbit) (OECD 402)

Inhalative LC0 67.5 mg/l/0.5h (human)

111-77-3 Dowanol DM

Oral LD50 7,128 mg/kg (mouse) (OECD 201)

Dermal LD50 9,404 mg/kg (rabbit) (OECD 402)

Inhalative LC0 > 1.2 mg/l/6h (rat) (OECD 403)

Skin corrosion/irritation Based on available data, the classification criteria are not met.**Serious eye damage/irritation**

Studies show that the product is not harmful to the eyes.

Causes severe eye irritation.

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**

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

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.**Additional toxicological information:****Acute effects (acute toxicity, irritation and corrosivity)**

There are analysis results available for this product or a product with a comparable composition which show an eye irritation but not an eye corrosion. This product is classified and labelled according to the analysis results.

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· Repeated dose toxicity

Repeated oral intake can cause kidney damage.

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

Oral NOAEL (90d) 500 mg/kg bw/day (rat)

112-34-5 2-(2-butoxyethoxy)ethanol

Oral NOAEL (90d) 250 mg/kg bw/day (rat) (OECD 408)

Dermal NOAEL (90d) 2,000 mg/kg bw/day (rat) (OECD 411)

Inhalative NOAEC (90d) 94 mg/m³ (rat) (OECD 413)
Vapour**111-77-3 Dowanol DM**

Oral NOAEL (28d) 900 mg/kg bw/day (rat) (OECD 407)

Dermal NOAEL (90d) 40 mg/kg bw/day (guinea pig) (OECD 411)

Inhalative NOAEC (90d) > 1,060 mg/m³ (rat) (OECD 413)**· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Repr. 2

· 11.2 Information on other hazards**· Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity**· Aquatic toxicity:****143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol**

EC50 (static) 2,210 mg/l/48h (Daphnia magna) (EU C.2)

EC0 (static) 2,150 mg/l/96h (fish) (DIN 38 412-L15)

LC50 2,400 mg/l/96h (Pimephales promelas)

2,200 - 4,600 mg/l/96h (fish) (DIN 38412-15)

EC50 (static) 840 mg/l/72h (Desmodesmus subspicatus) (OECD 201)

NOEC (static) 1,000 mg/l/96h (fish) (DIN 38 412-L15)

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

EC50 > 211.2 mg/l/48h (Daphnia magna) (OECD 202)

LC50 > 222.2 mg/l/96h (Oncorhynchus mykiss) (OECD 203)

EC50 > 224.4 mg/l/72h (Raphidocelis subcapitata) (OECD 201)

111-46-6 2,2'-oxybisethanol

EC50 62,630 mg/l/48h (Daphnia magna)

LC50 (dynamic) 75,222 mg/l/96h (Pimephales promelas)

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

EC50 > 3,200 mg/l/48h (Daphnia magna) (OECD 202)

LC50 > 1,800 mg/l/96h (Scophthalmus maximus) (OECD 203)

112-34-5 2-(2-butoxyethoxy)ethanol

EC50 (static) > 100 mg/l/48h (Daphnia magna) (OECD 202)

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| | |
|----------------------------|---|
| EC50 (static) | > 100 mg/l/96h (Desmodesmus subspicatus) (OECD 201) |
| LC50 (static) | 1,300 mg/l/96h (Lepomis macrochirus) (OECD 203) |
| 111-77-3 Dowanol DM | |
| EC50 (static) | 1,192 mg/l/48h (Daphnia magna) |
| EC50 (static) | > 1,000 mg/l/96h (Selenastrum capricornutum) (OECD 201) |
| LC50 (static) | 5,741 mg/l/96h (Pimephales promelas) |

- **12.2 Persistence and degradability** Easily biodegradable
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential**
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- **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 bodies or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The waste code numbers mentioned are recommendations based on the probable use of the product.

| | |
|-----------------------------------|--|
| • European waste catalogue | |
| 16 00 00 | WASTES NOT OTHERWISE SPECIFIED IN THE LIST |
| 16 01 00 | end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08) |
| 16 01 13* | brake fluids |
| HP4 | Irritant - skin irritation and eye damage |
| HP10 | Toxic for reproduction |

- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Dispose of packaging according to regulations on the disposal of packagings.
Non contaminated packagings can be used for recycling.
Cleaned packing materials have to be admitted to local recycling circuits.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

— GB —

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Safety data sheet

according to 1907/2006/EC, Article 31

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SECTION 14: Transport information

| | |
|--|--|
| · 14.1 UN number or ID number · ADR/RID, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name · ADR/RID, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) · ADR/RID, ADN, IMDG, IATA · Class | Void |
| · 14.4 Packing group · ADR/RID, IMDG, IATA | Void |
| · 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. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Chemical safety assessment
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· National regulations

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H302 Harmful if swallowed.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.

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H361d Suspected of damaging the unborn child.

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

· Department issuing data specification sheet:

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· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

Repr. 2: Reproductive toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

· * Data compared to the previous version altered.

GB
