

### Ferdinand Bilstein GmbH + Co. KG

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

### 1.1 Product identifier

febi 21754 brake fluid DOT 4 Article number: 26746, 26461, 21754

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

1.2.1 Relevant uses

brake fluid

1.2.2 Uses advised against

None known.

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

Company Ferdinand Bilstein GmbH + Co. KG

Wilhelmstr. 47

58256 Ennepetal / GERMANY Phone +49 2333 911-0 Fax +49 2333 911-444 Homepage www.febi.com E-mail info@febi.com

Address enquiries to

Technical information info@febi.com
Safety Data Sheet info@febi.com

1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (English)

Company +49 2333 911-0

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

## 2.1 Classification of the substance or mixture

Repr. 2: H361d Suspected of damaging the unborn child.

2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2012)

Hazard pictograms



Signal word WARNING

Contains: Tris[2-(2-(2-methoxy)ethoxy)ethyl]orthoborate, CAS: 30989-05-0

**Hazard statements** H361d 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.

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.

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

P405 Store locked up.

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

regulation.



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#### 2.3 Other hazards

Physico-chemical hazards No particular hazards known.

**Human health dangers** If swallowed or in the event of vomiting, risk of product entering the lungs.

Frequent persistent contact with the skin can cause skin irritation.

**Environmental hazards**Does not contain any PBT or vPvB substances.

Other hazards none

This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

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

### 3.1 Substances

not applicable

#### 3.2 Mixtures

#### The product is a mixture.

Range [%]	Substance
30 - < 50	Tris[2-(2-(2-methoxyethoxy)ethoxy)ethyl]orthoborate
	CAS: 30989-05-0
10 - < 14	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol
1 - < 10	Diethylen glycol
	CAS: 111-46-6
1 - < 3	Diisopropanolamine
	CAS: 110-97-4

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

For full text of H-statements and R-phrases: see SECTION 16.

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

**General information** Take off contaminated clothing and wash before reuse.

**Inhalation** Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

**Skin contact** When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

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.

Ingestion Consult a doctor immediately.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

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

No information available.

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

Treat symptomatically.

Forward this sheet to the doctor.

## **SECTION 5: Fire-fighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

be used

Full water jet



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

Not combusted hydrocarbons.

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO) Nitrogen oxides (NOx).

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

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

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

Forms slippery surfaces with water.

#### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

## 6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder). Dispose of absorbed material in accordance within the regulations.

#### 6.4 Reference to other sections

See SECTION 8+13

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

## 7.1 Precautions for safe handling

Use only in well-ventilated areas.

The product is combustible.

Do not eat, drink or smoke when using this product.

Use barrier skin cream.

Wash hands before breaks and after work.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash before reuse.

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

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Protect from heat/overheating.

Keep in a cool place. Store in a dry place.

The product is hygroscopic.

## 7.3 Specific end use(s)

See product use, SECTION 1.2



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## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

not applicable

## **DNEL**

Substance	
Tris[2-(2-(2-methoxyethoxy)ethoxy)ethyl]orthoborate, CAS: 30989-05-0	
Industrial, inhalative, Long-term - systemic effects, 29,1 mg/m³	
Industrial, dermal, Long-term - systemic effects, 8,3 mg/kg bw/day	
general population, oral, Long-term - systemic effects, 4,1 mg/kg bw/day	
general population, inhalative, Long-term - systemic effects, 7,2 mg/m³	
general population, dermal, Long-term - systemic effects, 4,1 mg/kg bw/day	
Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol	
Industrial, dermal, Long-term - systemic effects, 208 mg/kg bw/day	
Industrial, inhalative, Long-term - systemic effects, 195 mg/m³	
general population, oral, Long-term - systemic effects, 12,5 mg/kg bw/day	
general population, inhalative, Long-term - systemic effects, 117 mg/m³	
general population, dermal, Long-term - systemic effects, 125 mg/kg bw/day	
Diethylen glycol, CAS: 111-46-6	
Industrial, inhalative, Long-term - systemic effects, 44 mg/m³	
Industrial, inhalative, Long-term - local effects, 60 mg/m³ (AF= 2)	
Industrial, dermal, Long-term - systemic effects, 43 mg/kg bw/d (AF= 105)	
general population, inhalative, Long-term - local effects, 12 mg/m³ (AF0 10)	
general population, dermal, Long-term - systemic effects, 21 mg/kg bw/d (AF= 210)	
general population, inhalative, Long-term - systemic effects, 12 mg/m³	

## **PNEC**

Substance	
Tris[2-(2-(2-methoxyethoxy)ethoxy)ethyl]orthoborate, CAS: 30989-05-0	
seawater, 21,12 µg/L	
freshwater, 211,2 μg/L	
sewage treatment plants (STP), 100 mg/L	
sediment (freshwater), 760 μg/kg sediment dw	
sediment (seawater), 76 µg/kg sediment dw	
soil, 28,3 µg/kg soil dw	
Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol	
freshwater, 2 mg/L	
oral (food), 111 mg/kg food	
soil, 460 μg/kg soil dw	
sediment (seawater), 660 μg/kg sediment dw	
sediment (freshwater), 6,6 mg/kg sediment dw	
sewage treatment plants (STP), 500 μg/L	
seawater, 200 μg/L	
Diethylen glycol, CAS: 111-46-6	
freshwater, 10 mg/L (AF= 10)	
seawater, 1 mg/L (AF= 100)	



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sediment (freshwater), 20.9 mg/kg dw

sewage treatment plants (STP), 199.5 mg/L (AF= 10)

sediment (seawater), 2.09 mg/kg dw

soil, 1.53 mg/kg dw

### 8.2 Exposure controls

Additional advice on system design 

Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

Eye protection safety glasses

**Hand protection** The details concerned are recommendations. Please contact the glove supplier for further

information.

> 0,4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).

**Skin protection** Oil-resistant protective clothing.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Avoid contact with eyes and skin.

Do not inhale vapors.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards none

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.



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

## 9.1 Information on basic physical and chemical properties

Physical stateliquidColoryellowOdorcharacteristicOdor thresholdnot applicable

 pH-value
 ca 8.5 (20° C) (FMVSS 116)

 pH-value [1%]
 No information available.

 Boiling point [°C]
 > 260 (FMVSS 116)

 Flash point [°C]
 > 139 (DIN ISO 2719)

 Flammability [°C]
 > 200 (DIN 51794)

Lower explosion limit 1,5 Vol%

**Upper explosion limit** No information available.

Oxidizing properties no

Vapor pressure/gas pressure [kPa] < 0,1 kPa (20° C)

**Density [g/cm³]** ca. 1,06 (DIN 51 757) (20 °C / 68,0 °F)

Relative density not determined

Bulk density [kg/m³] not applicable

Solubility in water miscible

Solubility other solvents No information available.

Partition coefficient [n-octanol/water] No information available.

Kinematic viscosity ca. 15 - 17 mm<sup>2</sup>/s (20° C) (FMVSS 116)

Relative vapour density

Evaporation speed

No information available.

Melting point [°C]

No information available.

Auto-ignition temperature

No information available.

Decomposition temperature [°C] ca. 360

Particle characteristics No information available.

9.2 Other information

No information available.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No dangerous reactions known if used as directed.

The product is hygroscopic.

## 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature). Decomposes begins at ca. 360 °C.

## 10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

#### 10.4 Conditions to avoid

See SECTION 7.2.



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## 10.5 Incompatible materials

Sensitive to moisture

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.



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## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### Acute oral toxicity

Product ATE-mix, oral, > 2000 mg/kg

Substance

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

LD50, oral, Rat, >2000 mg/kg bw

NOAEL, oral, Rat, >1000 mg/kg bw/day

Diisopropanolamine, CAS: 110-97-4

LD50, oral, Rat, 6720 mg/kg bw

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

LD50, oral, Rat, >2000 mg/kg bw

Diethylen glycol, CAS: 111-46-6

Oral lethal dose for humans: 0,014 mg/kg (ECHA)

LD50, oral, Rat, > 16500 mg/kg

ATE, oral, 500 mg/kg (Cat. 4), for ATEmix calculation

#### Acute dermal toxicity

Substance

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

LD50, dermal, Rat, >2000 mg/kg bw

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

LD50, dermal, Rabbit, 3540 mg/kg bw

Diethylen glycol, CAS: 111-46-6

LD50, dermal, Rabbit, 13300 mg/kg

#### Acute inhalational toxicity

Substance

Diethylen glycol, CAS: 111-46-6

LC50, inhalative, Rat, > 4,6 mg/l/4h

Serious eye damage/irritation Toxicological data of complete product are not available.

Slight irritant effect - does not require labelling. No classification due to substance-specific concentration limits.

No classification.

Calculation method

Substance

Diethylen glycol, CAS: 111-46-6

Rabbit, in vivo, non-irritating

Skin corrosion/irritation Based on the information available, the classification criteria have not been fulfilled.

Substance

Diethylen glycol, CAS: 111-46-6

-, OECD 439, non-irritating

Respiratory or skin sensitisation

Based on the information available, the classification criteria have not been fulfilled.



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Substance

Diethylen glycol, CAS: 111-46-6

Guinea pig, EU Method B.6; in vivo (non-LLNA), non-sensitizing

Specific target organ toxicity —

single exposure

Based on the information available, the classification criteria have not been fulfilled.

Specific target organ toxicity — repeated exposure

Based on the information available, the classification criteria have not been fulfilled.

Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance

Diethylen glycol, CAS: 111-46-6

no adverse effect observed

**Reproduction toxicity** Suspected of damaging the unborn child.

Calculation method

Substance

Diethylen glycol, CAS: 111-46-6

NOAEL, oral, mouse, 3060 mg/kg bw/d (Effect on fertility), no adverse effect observed

Carcinogenicity Based on the information available, the classification criteria have not been fulfilled.

Aspiration hazard

Based on the information available, the classification criteria have not been fulfilled.

General remarks

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Substance

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

LC50, (96h), fish, 222,2 mg/L

EC50, (48h), Crustacea, 211,2 mg/L

EC50, (72h), Algae, 224,4 mg/L

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

LC50, (96h), fish, >1,5 g/L

EC50, (48h), Crustacea, >3 g/L

NOEC, (72h), Algae, >2,5 g/L

Diethylen glycol, CAS: 111-46-6

LC50, (96h), Pimephales promelas, 752 mg/l

EC50, (24h), Daphnia magna, > 100 mg/l

EC10, (0,5h), Activated sewage sludge, > 1995 mg/l

EC5, (8d), Scenedesmus quadricauda (algea), 2700 mg/l

## 12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

No information available.

bfe00037

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#### 12.3 Bioaccumulative potential

CAS 110-97-4: Log Pow = -0.82

## 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

**Product** 

In according to RoHS!

Coordinate disposal with the disposal contractor/authorities if necessary.

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Uncontaminated packaging may be taken for recycling.

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control

regulations. Consult your local or regional authorities.

## **SECTION 14: Transport**

## 14.1 UN number

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

**IMDG** 

Air transport in accordance with IATA not applicable

DOT Road Shipment Information (49 not applicable

CFR)

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14.2 UN proper shipping name

Transport by land according to ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

DOT Road Shipment Information (49 not applicable

CFR)

14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with not applicable

Air transport in accordance with IATA not applicable

DOT Road Shipment Information (49 not applicable

CFR)

14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with not applicable

**IMDG** 

Air transport in accordance with IATA not applicable

DOT Road Shipment Information (49 not applicable

CFR)



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#### 14.5 Environmental hazards

Transport by land according to

ADR/RID

no

no

Inland navigation (ADN)

Marine transport in accordance with

**IMDG** 

Air transport in accordance with IATA no

DOT Road Shipment Information (49 no

CFR)

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

### 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

**US Regulations** 

National regulations 29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA,

TSCA, California - Prop. 65

- SARA, 302 This product does not contain any ingredients regulated under this list. - SARA, 311 Diethylene glycol(CAS 111-46-6); Diisopropanolamine(CAS 110-97-4) - SARA, 313 Diethylene glycol(CAS 111-46-6); Diisopropanolamine(CAS 110-97-4) - CA Proposition 65

No components require labeling under California Proposition 65.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

- FDA

**American Conference of** 

Does not contain any relevant substances fulfilling the classification criteria.

No chemical substances in this material are named on the California P65 list.

Governmental Industrial Hygienists -**ACGIH** 

**Cancer IARC** 

International Agency for Research on Does not contain any relevant substances fulfilling the classification criteria.

**National Toxicology Program - NTP** 

Diethylene glycol; Diisopropanolamine is named in the NTP - National Toxicology Program.

**HAP-VOC** No information available.

**Transport-regulations** DOT-Classification, ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

## 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.



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### **SECTION 16: Other information**

## 16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route;

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses;

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure;

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency;

GHS = Globally Harmonized System of Classification and Labelling of Chemicals;

IATA = International Air Transport Association;

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk;

IC50 = Inhibition concentration, 50%;

IMDG = International Maritime Code for Dangerous Goods;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

MARPOL = International Convention for the Prevention of Marine Pollution from Ships;

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration:

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

SARA = Superfund Amendments and Reauthorization Act;

TLV®/TWA = Threshold limit value – time-weighted average; TLV®STEL = Threshold limit value – short-time exposure limit;

VOC = Volatile Organic Compounds;

vPvB = very Persistent and very Bioaccumulative;

## 16.2 Ratings



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#### **NFPA Ratings**



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard BOTTOM, SPECIAL NOTICE: -

#### **HMIS Ratings**



- 2\*- Moderate chronic Hazard
- 1 Slight Hazard
- 1 Slight Hazard
- X Personal protection rating to be supplied by user depending on use conditions

#### PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

## **Modified position**

none