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Ferdinand Bilstein GmbH + Co. KG

Date printed 21.03.2024, Revision 21.03.2024

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

1.1 Product identifier

brake fluid DOT 4 PLUS

Article number: 26748, 23932, 23930, 180589

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

121 Relevantuses

brake fluid

1.2.2 Uses advised against

None known.

1.3 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

Call NHS 111 or a doctor
+49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

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

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms

Signal word WARNING

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

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

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

P102 Keep out of reach of children.

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 in accordance with local/national regulation.

2.3 Other hazards

Physico-chemical hazards Material will burn in fire.

Human health dangers Contains no ingredients with endocrine-disrupting properties.

Environmental hazardsDoes not contain any PBT or vPvB substances.

Other hazards none



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SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
80 - 95	Tris[2-(2-(2-methoxyethoxy)ethoxy)ethyl]orthoborate
	CAS: 30989-05-0, EINECS/ELINCS: 250-418-4, Reg-No.: 01-2119462824-33-XXXX
	GHS/CLP: Repr. 2: H361fd
10 - 15	2-(2-(2-Butoxyethoxy)ethoxy)ethanol
	CAS: 143-22-6, EINECS/ELINCS: 205-592-6, EU-INDEX: 603-183-00-0, Reg-No.: 01-2119475107-38-XXXX
	GHS/CLP: Eye Dam. 1: H318
	SCL [%]: 20 - <30: Eye Irrit. 2: H319, >=30: Eye Dam. 1: H318
1 - 3	3,6,9,12-tetraoxahexadecan-1-ol
	CAS: 1559-34-8, EINECS/ELINCS: 216-322-1
	GHS/CLP: Eye Irrit. 2: H319
< 1	2-(2-Methoxyethoxy)ethanol
	CAS: 111-77-3, EINECS/ELINCS: 203-906-6, EU-INDEX: 603-107-00-6, Reg-No.: 01-2119475100-52-XXXX
	GHS/CLP: Repr. 1B: H360D
	SCL [%]: >= 3: Repr. 1B: H360D

Comment on component parts

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 Seek medical advice 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 your 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 Full water jet

be used



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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)

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Collect contaminated firefighting water separately, must not be discharged into the drains. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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.

Do not store together with food and animal food/diet.

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

Keep container tightly closed. Protect from heat/overheating.

Keep container in a well-ventilated place. Recommended storage temperature: 15 - 30°C

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 (UK)

Substance

2-(2-Methoxyethoxy)ethanol

CAS: 111-77-3, EINECS/ELINCS: 203-906-6, EU-INDEX: 603-107-00-6, Reg-No.: 01-2119475100-52-XXXX

Long-term exposure: 10 ppm, 50,1 mg/m³, Sk

2-(2-Butoxyethoxy)ethanol

CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX

Long-term exposure: 10 ppm, 67,5 mg/m³

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Short-term exposure (15-minute): 15 ppm, 101,2 mg/m³

Substance / EC LIMIT VALUES

2-(2-Methoxyethoxy)ethanol

CAS: 111-77-3, EINECS/ELINCS: 203-906-6, EU-INDEX: 603-107-00-6, Reg-No.: 01-2119475100-52-XXXX

Eight hours: 10 ppm, 50,1 mg/m³, H

2-(2-Butoxyethoxy)ethanol

CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX

Eight hours: 10 ppm, 67,5 mg/m³

Short-term (15-minute): 15 ppm, 101,2 mg/m³

DNEL

Substance
2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6
Industrial, inhalative, Long-term - systemic effects, 24 mg/m³
Industrial, inhalative, Acute - systemic effects, 96 mg/m³
Industrial, inhalative, Long-term - local effects, 30,5 mg/m³
Industrial, inhalative, Acute - local effects, 96 mg/m³
Industrial, dermal, Long-term - systemic effects, 1005 mg/kg bw/day
Industrial, dermal, Acute - systemic effects, 400 mg/kg bw/day
Industrial, dermal, Long-term - local effects, 5,65 mg/cm ²
Industrial, dermal, Acute - local effects, 8,35 mg/cm²
general population, inhalative, Long-term - systemic effects, 12 mg/m³
general population, inhalative, Acute - systemic effects, 48 mg/m³
general population, inhalative, Long-term - local effects, 15,252 mg/m³
general population, inhalative, Acute - local effects, 48 mg/m³
general population, dermal, Long-term - systemic effects, 125 mg/kg bw/day
general population, dermal, Acute - systemic effects, 200 mg/kg bw/day
general population, dermal, Long-term - local effects, 2,823 mg/cm ²
general population, dermal, Acute - local effects, 4,173 mg/cm ²
general population, oral, Long-term - systemic effects, 12,5 mg/kg bw/day
general population, oral, Acute - systemic effects, 103,4 mg/kg bw/day
2-(2-Methoxyethoxy)ethanol, CAS: 111-77-3
Industrial, inhalative, Long-term - systemic effects, 50,1 mg/m³
Industrial, dermal, Long-term - systemic effects, 2,22 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 30,1 mg/m³



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general population, dermal, Long-term - systemic effects, 1,33 mg/kg bw/day

general population, oral, Long-term - systemic effects, 7,5 mg/kg bw/day

Tris[2-(2-(2-methoxyethoxy)ethoxy)ethoxy)ethoporate, CAS: 30989-05-0

Industrial, inhalative, Long-term - systemic effects, 14.8 mg/m³ (AF=25)

Industrial, dermal, Long-term - systemic effects, 4.2 mg/kg bw/d (AF=100)

general population, inhalative, Long-term - systemic effects, 2.6 mg/m³ (AF=50)

general population, dermal, Long-term - systemic effects, 1.5 mg/kg bw/d (AF=200)

general population, oral, Long-term - systemic effects, 1.5 mg/kg bw/d (AF=200)

PNEC

Substance
2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6
freshwater, 2 - 100 mg/L
seawater, 200 - 142570 μg/L
sewage treatment plants (STP), 199,5 - 200 mg/L
sediment (freshwater), 7,7 - 11,115 mg/kg sediment dw
sediment (seawater), 770 - 1111,5 μg/kg sediment dw
soil, 470 - 11510 µg/kg soil dw
2-(2-Methoxyethoxy)ethanol, CAS: 111-77-3
freshwater, 12 mg/L
seawater, 1,2 mg/L
sewage treatment plants (STP), 10000 mg/L
sediment (freshwater), 44,4 mg/kg sediment dw
sediment (seawater), 0,44 mg/kg sediment dw
terrestrial, 2,1 mg/kg
oral (food), 0,09 g/kg
Tris[2-(2-(2-methoxyethoxy)ethoxy)ethyl]orthoborate, CAS: 30989-05-0
There are no PNEC values established for the substance.

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.

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

Skin protection Oil-resistant protective clothing.

Other 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 vapours.

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 stateliquidFormliquid

Coloramber colourOdorcharacteristicOdour thresholdnot relevantpH-value7 - 10.5

pH-value [1%] No information available.

Boiling point or initial boiling point

and boiling range [°C]

> 260

Flash point [°C] > 120
Flammability no

Lower explosion limitNo information available.Upper explosion limitNo information available.

Oxidising properties no Vapour pressure/gas pressure [kPa] 0.1

Density [g/cm³] 1.02 - 1.07

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

(log value)

Kinematic viscosity 5 - 10 cSt (20°C)

Relative vapour density No information available.

Melting point [°C] < -50

Auto-ignition temperature [°C] > 280

Decomposition temperature [°C] 300

Particle characteristics not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature). Decomposes begins at ca. 300 °C.

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents. The product is hygroscopic.

10.4 Conditions to avoid

See SECTION 7.2.



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10.5 Incompatible materials

Oxidizing agent Reducing agent Strong bases. Strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute oral toxicity

Product	
ATE-mix, oral, Rat, > 5000 mg/kg bw	
Substance	
2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6	
LD50, oral, Rat, 5000 - 11300 mg/kg bw	
LD0, oral, Rat, 5 mL/kg bw	

2-(2-Methoxyethoxy)ethanol, CAS: 111-77-3 LD50, oral, Rat, 7128 mg/kg

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

LD50, oral, Rat, > 2000 mg/kg bw, OECD 401

Acute dermal toxicity

Product	
ATE-mix, dermal, Rabbit, > 3000 mg/kg bw	

Substance	
2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6	
.C50, dermal, Rabbit, 3540 mg/kg bw	
DLo, dermal, Rabbit, 2000 mg/kg bw	
2-(2-Methoxyethoxy)ethanol, CAS: 111-77-3	
D50, dermal, Rabbit, 9404 mg/kg	

Tris[2-(2-(2-methoxyethoxy)ethoxy)ethyl]orthoborate, CAS: 30989-05-0 LD50, dermal, Rat, > 2000 mg/kg bw

Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.

Substance	
2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6	
LC50, inhalative, Rat, 2,4 mg/L air	
LCLO, inhalative, Rat, 1,2 mg/L air, 8h	
2-(2-Methoxyethoxy)ethanol, CAS: 111-77-3	
CO. inhalation (vapour). Rat. > 1.2 mg/l 6h	

Serious eye damage/irritation Toxicological data of complete product are not available. No classification.

Calculation method

Substance	
2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6	
Eye, adverse effect observed	
2-(2-Methoxyethoxy)ethanol, CAS: 111-77-3	
Eye, non-irritating	
Tris[2-(2-(2-methoxyethoxy)ethoxy)ethyl]orthoborate, CAS: 30989-05-0	



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Eye, non-irritating

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance

2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6

dermal, non-irritating

2-(2-Methoxyethoxy)ethanol, CAS: 111-77-3

dermal, non-irritating

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

dermal, non-irritating

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

Substance

2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6

dermal, non-sensitizing

2-(2-Methoxyethoxy)ethanol, CAS: 111-77-3

dermal, non-sensitizing

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

dermal, non-sensitizing

Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure

Based on the available information, the classification criteria are not fulfilled.

Substance

2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6

NOAEL, oral, Rat, 500 mg/kg bw/day

NOAEL, dermal, Rat, 5000 mg/kg bw/day

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

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

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6

in vitro, negativ

in vivo, negativ

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

in vitro, negativ

Reproduction toxicity

Suspected of damaging the unborn child.

Suspected of damaging fertility.

Classification was carried out based on substance-specific concentration limits.

Calculation method

- Fertility

Substance

2-(2-Methoxyethoxy)ethanol, CAS: 111-77-3

NOAEL, oral, 200 mg/kg bw/day, adverse effect observed, Effect on developmental toxicity,

NOAEL, dermal, Rabbit, 50 mg/kg bw/day, adverse effect observed, Effect on developmental toxicity,

- Development



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Substance

2-(2-Methoxyethoxy)ethanol, CAS: 111-77-3

NOAEL, oral, 200 mg/kg bw/day, adverse effect observed, Effect on developmental toxicity,

NOAEL, dermal, Rabbit, 50 mg/kg bw/day, adverse effect observed, Effect on developmental toxicity,

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

NOAEL, oral, Rabbit, 250 mg/kg bw/day, adverse effect observed

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

Aspiration hazardBased on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

Contains no ingredients with endocrine-disrupting properties.

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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting

ng

properties

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance
2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6
LC50, (96h), fish, 2,182 - 14,257 g/L
LC50, (48h), fish, 2,4 g/L
LC50, (24h), fish, 2,4 - 2,967 g/L
EC50, (21d), Invertebrates, 518,3 mg/L
EC50, (72h), Algae, 500 - 3211 mg/L
LC0, (96h), fish, 2,15 g/L
NOEC, (21d), fish, 174,6 mg/L
NOEC, (21d), Invertebrates, 97,7 - 174,6 mg/L
NOEC, (72h), Algae, 62,5 - 499 mg/L
LC100, (96h), fish, 4,6 g/L
EC10, (21d), Invertebrates, 233,9 - 235,6 mg/L
EC10, (72h), Algae, 151 - 1185 mg/L
EC20, (72h), Algae, 270 - 364 mg/L
2-(2-Methoxyethoxy)ethanol, CAS: 111-77-3
LC50, (96h), Pimephales promelas, 5741 mg/L
EC50, (96h), Pseudokirchneriella subcapitata, > 1000 mg/L
EC50, (48h), Daphnia magna, 1192 mg/L
Tris[2-(2-(2-methoxy)ethoxy)ethoxy)ethyl]orthoborate, CAS: 30989-05-0
LC50, (48h), Oncorhynchus mykiss, > 222,2 mg/L
EC50, (24h), Daphnia magna, > 211,2 mg/L
EC50, (72h), Algae, > 224,4 mg/L



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12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

Behaviour in sewage plant not determined

Biological degradability The product is biodegradable.

12.3 Bioaccumulative potential

Product has having no bioaccumulation potential.

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

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.

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

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended) 160113*

Contaminated packaging

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

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150102

150104

150110* packaging containing residues of or contaminated by hazardous substances



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SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

IMDG

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

IMDG

ADR/RID

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

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

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

IMDG

Air transport in accordance with IATA not applicable

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



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14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN)

no

Marine transport in accordance with

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex I (REACH) The product is not subject to Annex I restrictions.

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances \geq 0.1% that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1%

of substances with the following restrictions. 30, 54, 55, 72, 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the

following restrictions.

TRANSPORT-REGULATIONS

ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

NATIONAL REGULATIONS (UK): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK

REACH; GB CLP.

- Observe employment restrictions

for people

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H360D May damage the unborn child. H319 Causes serious eye irritation.

H318 Causes serious eye damage.

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

ebi bilstein

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16.2 Abbreviations and acronyms:

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

ATE = acute toxicity estimate CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration

ECB = European Chemicals Bureau EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

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 IUCLID = International Uniform ChemicaL Information Database

IVIS = In vitro irritation score LC50 = Lethal concentration, 50% LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading LQ = Limited Quantities

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

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

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

16.3 Other information

Classification procedure Repr. 2: H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

(Calculation method)

Modified position 1.3, 2.1, 2.2, 2.3, 3.2, 7.2, 8.1, 8.2, 9.1, 10.2, 10.5, 11.1, 11.2, 12.3, 12.6, 12.7, 15.1, 16.2,

16.3