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

Product identifier

automatic transmission fluid

Article number: 176857, 176859, 176860

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

1 2 1 Relevant uses

Gearbox oil

1.2.2 Uses advised against

None known.

Details of the supplier of the safety data sheet

Ferdinand Bilstein GmbH + Co. KG Company

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)

SECTION 2: Hazards identification

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

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms

Hazard statements H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling Contains: C14-C18 alpha-olefin epoxide and reaction products of boric acid, 1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs., Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs, Calcium

sulfonate. EUH208 May produce an allergic reaction.

Other hazards 2.3

Physico-chemical hazards No particular hazards known.

Human health dangers Frequent persistent contact with the skin can cause skin irritation.

Environmental hazards Does not contain any PBT or vPvB substances.

Contains no ingredients with endocrine-disrupting properties.

Other hazards

SECTION 3: Composition / Information on ingredients

Substances

not applicable

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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
50 - < 100	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based
	CAS: 72623-87-1, EINECS/ELINCS: 276-738-4, EU-INDEX: 649-483-00-5, Reg-No.: 01-2119474889-13-XXXX
	GHS/CLP: Asp. Tox. 1: H304
1 - < 5	Bis(nonylphenyl)amine
	CAS: 36878-20-3, EINECS/ELINCS: 253-249-4, Reg-No.: 01-2119488911-28-XXXX
	GHS/CLP: Aquatic Chronic 4: H413
1 - < 2.5	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich
	CAS: 398141-87-2, EINECS/ELINCS: 800-172-4, Reg-No.: 01-2119969520-35-XXXX
	GHS/CLP: Aquatic Chronic 2: H411
0.1 - < 1	Calcium sulfonate
	EINECS/ELINCS: Polymer
	GHS/CLP: Skin Sens. 1B: H317
0.1 - < 1	Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs
	EINECS/ELINCS: 471-920-1, Reg-No.: 01-0000019770-68
	GHS/CLP: Skin Sens. 1: H317
	SCL [%]: >= 9.4: Skin Sens. 1B: H317
0.25 - < 1	1-(tert-dodecylthio)propan-2-ol
	CAS: 67124-09-8, EINECS/ELINCS: 266-582-5, Reg-No.: 01-2119953277-30-XXXX
	GHS/CLP: Skin Sens. 1: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410,
	M-Factor (acute): 1, M-Factor (chronic): 1
	SCL [%]: >= 14.2: Skin Sens. 1: H317
0.1 - < 1	1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.
	EINECS/ELINCS: 482-000-4, Reg-No.: 01-0000020142-86-XXXX
	GHS/CLP: Skin Sens. 1: H317 - Aquatic Chronic 3: H412
0.1 - < 1	C14-C18 alpha-olefin epoxide and reaction products of boric acid
	CAS: 1471314-23-4, EINECS/ELINCS: 939-580-3, Reg-No.: 01-2119976364-28-XXXX
	GHS/CLP: Skin Sens. 1: H317
0.01 - < 0.1	Amine, ethoxylated
	EINECS/ELINCS: 263-177-5
	GHS/CLP: Skin Corr. 1C: H314 - Eye Dam. 1: H318 - Met. Corr. 1: H290 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - Acute Tox. 4: H302,
	M-Factor (acute): 10

Comment on component parts Contains less than 3% w/w DMSO-extract (only for mineral oils)

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 Change soaked clothing.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contactRinse 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 Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects



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4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in the event of vomiting, risk of product entering the lungs.

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

be used

Full water jet

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.

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

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 residues with absorbent material (e.g. sand).

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

No special measures necessary if used correctly.

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 food and animal food/diet.

Keep container tightly closed.

Protect from heat/overheating.



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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 (GB)

not relevant

DNEL

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
Industrial, dermal, Long-term - systemic effects, 5 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 2.5 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0.25 mg/kg bw/day
C14-C18 alpha-olefin epoxide and reaction products of boric acid, CAS: 1471314-23-4
Industrial, dermal, Long-term - systemic effects, 16.7 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 5.88 mg/m³
general population, oral, Long-term - systemic effects, 0.83 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 8.3 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1.45 mg/m³
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
Industrial, dermal, Long-term - systemic effects, 970 μg/kg bw/day
Industrial, inhalative, Long-term - local effects, 5.58 mg/m³
Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m³
general population, inhalative, Long-term - local effects, 1.19 mg/m³
general population, inhalative, Long-term - systemic effects, 740 μg/kg bw/day
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2
Industrial, dermal, Long-term - systemic effects, 350 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 24.7 mg/m³
general population, dermal, Long-term - systemic effects, 125 mg/kg bw/day
general population, oral, Long-term - systemic effects, 2.5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 4.35 mg/m³
Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs
Industrial, dermal, Acute - local effects, 417.36 μg/cm²
1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.
There are no DNEL values established for the substance.
1-(tert-dodecylthio)propan-2-ol, CAS: 67124-09-8
Industrial, dermal, Acute - local effects, 215.4 μg/cm²
Industrial, dermal, Long-term - systemic effects, 3.34 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 11.8 mg/m³
general population, oral, Long-term - systemic effects, 0.84 mg/kg bw/day
general population, dermal, Acute - local effects, 107.7 μg/cm ²
general population, dermal, Long-term - systemic effects, 1.67 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 2.9 mg/m³

PNEC

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
seawater, 41.2 µg/L



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sediment (freshwater), 1 mg/kg sediment dw		
sediment (seawater), 0.1 mg/kg sediment dw		
freshwater, 412 µg/L		
C14-C18 alpha-olefin epoxide and reaction products of boric acid, CAS: 1471314-23-4		
soil, 1706.3 mg/kg soil dw		
freshwater, 0.2 mg/L		
seawater, 0.02 mg/L		
sewage treatment plants (STP), 100 mg/L		
sediment (seawater), 855.6 mg/kg sediment dw		
oral (food), 33.3 mg/kg food		
sediment (freshwater), 8556 mg/kg sediment dw		
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1		
oral (food), 9.33 mg/kg food		
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2		
freshwater, 2.4 µg/L		
sediment (freshwater), 433 µg/kg sediment dw		
sediment (seawater), 59.6 µg/kg sediment dw		
soil, 85.3 µg/kg soil dw		
seawater, 330 ng/L		
sewage treatment plants (STP), 100 mg/L		
oral (food), 111.11 mg/kg food		
Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs		
sediment (seawater), 1701 mg/kg sediment dw		
sewage treatment plants (STP), 100 mg/L		
sediment (freshwater), 17100 mg/kg sediment dw		
freshwater, 400 µg/L		
seawater, 40 µg/L		
soil, 3.416 g/kg soil dw		
1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.		
There are no PNEC values established for the substance.		
1-(tert-dodecylthio)propan-2-ol, CAS: 67124-09-8		
oral (food), 33.33 mg/kg food		
seawater, 0.001 mg/l		
freshwater, 0.006 mg/l		
sewage treatment plants (STP), 100 mg/l		
sediment (freshwater), 8.28 mg/kg sediment dw		
soil, 0.244 mg/kg soil dw		
sediment (seawater), 0.828 mg/kg sediment dw		



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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.

General exposure limit for oil mist should be noted.

Eye protection If there is a risk of splashing:

safety glasses (EN 166:2001)

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). > 0.4 mm; Neoprene, >480 min (EN 374-1/-2/-3).

Skin protection light 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.

Respiratory protection not applicable

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical stateliquidFormliquid

Colorgreen-yellowOdorcharacteristicOdour thresholdnot relevantpH-valuenot applicablepH-value [1%]not applicable

Boiling point [°C] No information available.

Flash point [°C]

Flammability

No information available.

Lower explosion limit

No information available.

Upper explosion limit

No information available.

Oxidising properties no

Particle characteristics

Vapour pressure/gas pressure [kPa]No information available.Density [g/cm³]0.84 (15 °C / 59,0 °F)Relative densityNo information available.

Bulk density [kg/m³] not applicable

Solubility in water immiscible

Solubility other solvents

Partition coefficient [n-octanol/water]

Kinematic viscosity

Relative vapour density

Evaporation speed

Melting point [°C]

Auto-ignition temperature [°C]

No information available.

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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).

10.3 Possibility of hazardous reactions

No dangerous reactions known if used as directed.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Oxidizing agent Strong basic compounds 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

Bis(nonylphenyl)amine, CAS: 36878-20-3

LD50, oral, Rat, 5000 mg/kg bw

C14-C18 alpha-olefin epoxide and reaction products of boric acid, CAS: 1471314-23-4

LD50, oral, Rat, >16000 mg/kg bw (772.112-21 CFR 40)
>16000 mg/kg

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

LD50, oral, Rat, 5000 mg/kg bw

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2

LD50, oral, Rat, 10 mL/kg bw

Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs

LD50, oral, Rat (female), > 2500 mg/kg bw

1-(tert-dodecylthio)propan-2-ol, CAS: 67124-09-8

LD50, oral, Rat, >5000 mg/kg bw

Acute dermal toxicity

Substance
C14-C18 alpha-olefin epoxide and reaction products of boric acid, CAS: 1471314-23-4
LD50, dermal, Rat, >2000 mg/kg bw (OECD 402) >16000 mg/kg bw >16000
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, dermal, Rabbit, 2000 - 5000 mg/kg bw
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2
LD10, dermal, Rabbit, 4000 - 8000 mg/kg bw
Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs
LD50, dermal, Rat (female), > 2000 mg/kg bw
1-(tert-dodecylthio)propan-2-ol, CAS: 67124-09-8
LD50, dermal, Rabbit, >2000 mg/kg bw (OECD 434)

Acute inhalational toxicity

Substance
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h

Serious eye damage/irritation

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

Respiratory or skin sensitisation

Toxicological data of complete product are not available.
May produce an allergic reaction.
Calculation method

Specific target organ toxicity—
single exposure

Specific target organ toxicity—
repeated exposure

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

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

Substance

Bis(nonylphenyl)amine, CAS: 36878-20-3

NOEL, oral, Rat, 100 mg/kg bw/day



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Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day
NOAEC, inhalative, Rat, 980 mg/m³ air
LOAEL, oral, Rat, 125 mg/kg bw/day
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2
NOAEC, oral, Rat, 100 - 500 mg/kg bw/day
Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs
NOAEL, oral, Rat, 1000 mg/kg bw/day

MutagenicityBased on the available information, the classification criteria are not fulfilled.Reproduction toxicityBased on the available information, the classification criteria are not fulfilled.CarcinogenicityBased on the available information, the classification criteria are not fulfilled.Aspiration hazardBased on the available information, the classification criteria are not fulfilled.General remarksGeneral 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.

11.2 Information on other hazards

Endocrine disrupting propertiesContains no ingredients with endocrine-disrupting properties.

Other information none



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SECTION 12: Ecological information

12.1 Toxicity

Substance		
Bis(nonylphenyl)amine, CAS: 36878-20-3		
EC50, (48h), Invertebrates, 100 mg/L		
EL50, (72h), Algae, 100 mg/L		
NOELR, (21d), Invertebrates, 4.45 mg/L		
NOELR, (33d), fish, 10 mg/L		
C14-C18 alpha-olefin epoxide and reaction products of boric acid, CAS: 1471314-23-4		
EL50, (72h), Pseudokirchneriella subcapitata, >100 mg/L (OECD 201)		
EL50, (21d), Daphnia magna, 23 mg/L loading rate WAF (OECD 211)		
EL50, (48h), Daphnia magna, >100 mg/L (OECD 202)		
LL50, (96h), Oncorhynchus mykiss, >100 mg/L (OECD 203)		
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1		
NOELR, (14d), fish, 1 g/L		
LL50, (4d), Invertebrates, 10 g/L		
LL50, (4d), fish, 100 mg/L		
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2		
EC50, (48h), Daphnia magna, 4.6 mg/l (OECD 202)		
NOELR, (72h), Algae, 313 μg/L		
LL50, (96h), Oncorhynchus mykiss, 2.4 mg/l (OECD 203)		
Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs		
EC50, (14d), Danio rerio, >108 mg/l (OECD 204)		
EC50, (48h), Daphnia magna, 77 mg/l (OECD 202)		
EL50, (21d), Daphnia magna, 100 mg/l (OECD 211)		
EL50, (72h), Desmodesmus subspicatus, >160 mg/l (OECD 201)		
LL50, (96h), Oncorhynchus mykiss, 610 mg/l (OECD 203)		
1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.		
No information available.		
1-(tert-dodecylthio)propan-2-ol, CAS: 67124-09-8		
EL50, (96h), Desmodesmus subspicatus, >100 mg/l (OECD 201)		
EL50, (21d), Daphnia magna, 0.75 mg/l (OECD 211)		
EL50, (48h), Daphnia magna, 0.58 mg/l (OECD 202)		
LL50, (96h), Oncorhynchus mykiss, 0.75 mg/l (OECD 203)		
Amine, ethoxylated		
LC50, (96h), fish, < 1 mg/l		
EC50, (48h), Daphnia magna, < 1 mg/l		
EC50, (72h), Algae, < 0.01 mg/l		

12.2 Persistence and degradability

Behaviour in environment not determined

compartments

Behaviour in sewage plant not determined Biological degradability not determined

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12.3 Bioaccumulative potential

No information available.

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

No classification on the basis of the calculation procedure of the preparation directive.

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

In according to RoHS!

Disposal in an incineration plant in accordance with the regulations of the local authorities.

For recycling, consult manufacturer.

Waste no. (recommended) 130205* mineral-based non-chlorinated engine, gear and lubricating oils

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

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

Waste no. (recommended)

150102 150104

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

IMDG

not applicable

Air transport in accordance with IATA not applicable

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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

IMDG

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

ADR/RID

Transport by land according to

not applicable

Inland navigation (ADN)

not applicable

IMDG

Marine transport in accordance with not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN)

no

Marine transport in accordance with no

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



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SECTION 15: Regulatory information

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

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

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

(EU) 517/2014

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

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

REACH; GB CLP.

- Observe employment restrictions

for people

no

- 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)

H302 Harmful if swallowed.

H290 May be corrosive to metals. H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life. H304 May be fatal if swallowed and enters airways.

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 Aqu

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

SECTION 3 been added: Amine, ethoxylated SECTION 3 been added: Calcium sulfonate

SECTION 3 been added: Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs

SECTION 3 been added: 1-(tert-dodecylthio)propan-2-ol

SECTION 3 been added: 1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.

SECTION 3 been added: C14-C18 alpha-olefin epoxide and reaction products of boric acid SECTION 3 been added: Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich

SECTION 3 deleted: Alkyl thiophosphites

SECTION 3 deleted: 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate

SECTION 3 deleted: Phenol derivates

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.



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