

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : FLEXOLUB-A1
Revision date : 06.12.2021
Print date : 23.08.2022

Version (Revision) : 3.2.0 (3.1.0)

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

1.1 Product identifier

FLEXOLUB-A1

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

Relevant identified uses

Product Categories [PC]

PC24 - Lubricants, greases, release products

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Harmonic Drive UK Limited

Street : Unit 36, Wolseley Court

Postal code/city : Stafford ST 18 0GA (United Kingdom)

Telephone : +44 1785 245190

Telefax : +44 1785 240126

E-mail : info@harmonicdrive.co.uk

1.4 Emergency telephone number

+44 1785 245190

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms



Environment (GHS09)

Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : FLEXOLUB-A1
Revision date : 06.12.2021
Print date : 23.08.2022

Version (Revision) : 3.2.0 (3.1.0)

3.2 Mixtures

Hazardous ingredients

Zinc pyrophosphate ; REACH registration No. : 01-2120768152-56-xxxx ; EC No. : 231-203-4; CAS No. : 7446-26-6

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates ; REACH registration No. : 01-2119976322-36-xxxx ; EC No. : 279-632-6; CAS No. : 80939-62-4

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

2,6-di-tert-butyl-p-cresol (BHT) ; REACH registration No. : 01-2119555270-46-xxxx ; EC No. : 204-881-4; CAS No. : 128-37-0

Weight fraction : $< 0,5 \%$

Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Further ingredients

Ester oil

SHC (Synthetic hydrocarbon)

Metallic soap

Inorganic solid compounds

Additives not to declare

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap In case of skin irritation, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

None

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : FLEXOLUB-A1
Revision date : 06.12.2021
Print date : 23.08.2022

Version (Revision) : 3.2.0 (3.1.0)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO₂). ABC-powder. BC-powder. Foam. Dry sand.

Unsuitable extinguishing media

Water. Strong water jet. High power water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon monoxide (CO). Carbon dioxide (CO₂). Burning produces heavy smoke.

5.3 Advice for firefighters

Use suitable breathing apparatus.

5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

Special danger of slipping by leaking/spilling product.

6.1 Personal precautions, protective equipment and emergency procedures

None

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Ensure waste is collected and contained. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Soak up inert absorbent and dispose as waste requiring special attention. Suitable material for taking up: Universal binder. Kieselguhr.

6.4 Reference to other sections

None

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

It is recommended to design all work processes always so that the following is excluded: Generation/formation of mist. Avoid: Inhalation of vapours or spray/mists. Skin contact, Eye contact. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Storage class : 11

Storage class (TRGS 510) : 11

Keep away from

Food and feedingstuffs

Further information on storage conditions

Keep/Store only in original container. Keep container tightly closed. Protect against UV-radiation/sunlight. Humidity. Contact with air/oxygen. Dust deposits.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : FLEXOLUB-A1
Revision date : 06.12.2021
Print date : 23.08.2022

Version (Revision) : 3.2.0 (3.1.0)

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Take the precautions customary when handling chemicals. Change contaminated, saturated clothing. Keep away from sources of ignition - No smoking.

8.1 Control parameters

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type :	DNEL Consumer (systemic) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	= 0,05 mg/m ³
Limit value type :	DNEL Consumer (systemic) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,01 mg/kg
Limit value type :	DNEL Consumer (systemic) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,01 mg/kg
Limit value type :	DNEL worker (systemic) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	= 0,2 mg/m ³
Limit value type :	DNEL worker (systemic) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,03 mg/kg
Limit value type :	DNEL/DMEL (Consumer) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	= 5 mg/kg
Limit value type :	DNEL/DMEL (Consumer) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	= 1,74 mg/m ³
Limit value type :	DNEL/DMEL (Workers) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	= 5,8 mg/m ³
Limit value type :	DNEL/DMEL (Workers) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	= 8,3 mg/kg

PNEC

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : FLEXOLUB-A1
Revision date : 06.12.2021
Print date : 23.08.2022

Version (Revision) : 3.2.0 (3.1.0)

Limit value type :	PNEC (Aquatic, freshwater) (Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates ; CAS No. : 80939-62-4)
Limit value :	= 0,055 mg/l
Limit value type :	PNEC (Aquatic, intermittent release) (Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates ; CAS No. : 80939-62-4)
Limit value :	= 0,01 mg/l
Limit value type :	PNEC (Aquatic, marine water) (Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates ; CAS No. : 80939-62-4)
Limit value :	= 0,0055 mg/l
Limit value type :	PNEC (Sediment, freshwater) (Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates ; CAS No. : 80939-62-4)
Limit value :	= 239,64 mg/kg
Limit value type :	PNEC (Sediment, marine water) (Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates ; CAS No. : 80939-62-4)
Limit value :	= 23,96 mg/kg
Limit value type :	PNEC Soil (Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates ; CAS No. : 80939-62-4)
Limit value :	= 47,76 mg/kg
Limit value type :	PNEC (Sewage treatment plant) (Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates ; CAS No. : 80939-62-4)
Limit value :	= 1 mg/l
Limit value type :	PNEC (Aquatic, freshwater) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 0,004 mg/l
Limit value type :	PNEC (Aquatic, intermittent release) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 0,004 mg/l
Limit value type :	PNEC (Aquatic, marine water) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 0,0004 mg/l
Limit value type :	PNEC (Sediment, freshwater) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 1,29 mg/kg
Limit value type :	PNEC Soil (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 1,04 mg/kg

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye protection: not required. Avoid: Eye contact.

Recommended eye protection articles

DIN EN 166

Skin protection

Hand protection

Hand protection is not required

By long-term hand contact : Wear suitable gloves.

Suitable material : PE (Polyethylene). NR (natural rubber, natural latex). NBR (Nitrile rubber).

Breakthrough time (maximum wearing time) : PE < 30 min. ; NR < 10 min.; NBR > 480 min.

Thickness of the glove material : min. 0,38 mm

Recommended glove articles : EN ISO 374; DIN EN 420 Uvex. KCL, MAPA. Or comparable articles from other companies.

Respiratory protection

No special measures are necessary. Avoid: Inhalation of vapours or spray/mists

SECTION 9: Physical and chemical properties

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : FLEXOLUB-A1
Revision date : 06.12.2021
Print date : 23.08.2022

Version (Revision) : 3.2.0 (3.1.0)

9.1 Information on basic physical and chemical properties

Colour : beige

Odour : characteristic

Safety relevant basis data

Physical state :				pasty
Initial boiling point and boiling range :	(1013 hPa)	>	300	°C
Decomposition temperature :	(1013 hPa)	>	220	°C
Flash point :	(1013 hPa)	>	200	°C
Vapour pressure :	(50 °C)	<	0,12	hPa
Density :	(20 °C)	=	0,93	g/cm ³
Water solubility :	(20 °C)	<<	0,1	Wt %
pH :	(20 °C / 10 g/l)			not applicable

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Strong acid. Strong alkali.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Oxidising agent, strong.

10.6 Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂). Gases/vapours, harmful.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

By analogy:

Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg

Acute dermal toxicity

Parameter :	LD50
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg

Acute inhalation toxicity

Parameter :	LD50 (Zinc pyrophosphate ; CAS No. : 7446-26-6)
Exposure route :	Inhalation

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : FLEXOLUB-A1
Revision date : 06.12.2021
Print date : 23.08.2022

Version (Revision) : 3.2.0 (3.1.0)

Species : Rat
Effective dose : > 4,73 mg/l
Exposure time : 4 h
Method : OECD 436
Source : Published on the ECHA website

Irritant and corrosive effects

Primary irritation to the skin

Parameter : Primary irritation to the skin (Zinc pyrophosphate ; CAS No. : 7446-26-6)
Species : In vitro skin test
Result : Not an irritant
Method : OECD 439
Parameter : Primary irritation to the skin (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Species : Rabbit
Result : Irritant
Method : OECD 404
Parameter : Primary irritation to the skin (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Rabbit
Result : Not an irritant

Irritation to eyes

Parameter : Irritation to eyes (Zinc pyrophosphate ; CAS No. : 7446-26-6)
Species : Bovine eye/corneal
Result : Not an irritant
Method : OECD 437
Parameter : Irritation to eyes (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Species : Rabbit
Result : Irritant
Method : OECD 405
Parameter : Irritation to eyes (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Rabbit
Result : Not an irritant

Sensitisation

In case of skin contact

Parameter : Skin sensitisation (Zinc pyrophosphate ; CAS No. : 7446-26-6)
Species : Mouse
Result : Not sensitising.
Method : OECD 429
Parameter : Skin sensitisation (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Guinea pig
Result : Not sensitising.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

In vitro mutagenicity

Parameter : Gene-mutations microorganisms (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Test result : Negative.
Method : OECD 471 (Ames test)

SECTION 12: Ecological information

12.1 Toxicity

Trade name : FLEXOLUB-A1
Revision date : 06.12.2021
Print date : 23.08.2022

Version (Revision) : 3.2.0 (3.1.0)

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (Zinc pyrophosphate ; CAS No. : 7446-26-6)
Species : Brachydanio rerio (Zebra-fish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 4,5 mg/l
Exposure time : 96 h
Method : OECD 203
Source : Published on the ECHA website

Parameter : LC50 (Amines, C11-14-branched alkyl, monoheptyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : = 5,5 mg/l
Exposure time : 96 h

Parameter : LC0 (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Brachydanio rerio (Zebra-fish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 0,57 mg/l
Exposure time : 96 h
Method : Regulation (EC) No. 440/2008, Annex, C.1

Acute (short-term) daphnia toxicity

Parameter : EC50 (Zinc pyrophosphate ; CAS No. : 7446-26-6)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : = 26 mg/l
Exposure time : 48 h
Method : OECD 202

Parameter : EC50 (Amines, C11-14-branched alkyl, monoheptyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : = 1,2 mg/l
Exposure time : 48 h
Method : OECD 202

Parameter : EC50 (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : = 0,48 mg/l
Exposure time : 48 h
Method : OECD 202

Chronic (long-term) daphnia toxicity

Parameter : NOEC (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : > 0,39 mg/l
Exposure time : 21 d
Method : OECD 202

Acute (short-term) algae toxicity

Parameter : EC50 (Zinc pyrophosphate ; CAS No. : 7446-26-6)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : = 0,233 mg/l
Exposure time : 72 h

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : FLEXOLUB-A1
Revision date : 06.12.2021
Print date : 23.08.2022

Version (Revision) : 3.2.0 (3.1.0)

Method : OECD 201
Source : Published on the ECHA website
Parameter : EC50 (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Species : Selenastrum capricornutum
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 10 mg/l
Exposure time : 72 h
Parameter : ErC50 (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Scenedesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 0,4 mg/l
Exposure time : 72 h
Method : Regulation (EC) No. 440/2008, Annex, C.3

Bacteria toxicity

Parameter : EC50 (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Activated sludge
Evaluation parameter : Bacteria toxicity
Effective dose : > 10000 mg/l
Exposure time : 3 h

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Effective dose : = 4,5 %
Exposure time : 28 d
Evaluation : Not readily biodegradable (according to OECD criteria)
Method : OECD 301C

Overall evaluation on the mixture: Not readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Concentration : = 598,4
Parameter : Partition coefficient: n-octanol/water (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Concentration : = 5,1

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Additional information

According to its formulation, the product contains the following substances:

Molybdenum compounds, insoluble
Zinc compounds, insoluble

12.8 Overall evaluation

If product enters soil, it will be mobile and may contaminate groundwater. In accordance with the required stability the product is poorly biodegradable.

SECTION 13: Disposal considerations

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : FLEXOLUB-A1
Revision date : 06.12.2021
Print date : 23.08.2022

Version (Revision) : 3.2.0 (3.1.0)

Dispose according to legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. Collect the waste separately. Evidence for disposal must be provided.

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

12 01 12 - Spent waxes and fats

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

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

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

National regulations

Restrictions of occupation

Not relevant

Störfallverordnung

Not subject to StörfallVO.

Emission control act (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 1 %

Water hazard class (WGK)

Class : 2 (Significant hazardous to water) Classification according to AwSV

Other regulations, restrictions and prohibition regulations

Switzerland

VOCV-Regulation

Volatile organic compounds (VOC) content in percent by weight : 0 %

Additional information

TSCA (Toxic Substances Control Act) - USA, United States of America

All chemical substances in this mixture are included on or are exempted from listing on the TSCA Inventory for Chemical Substances.

California Proposition 65 - State of California

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : FLEXOLUB-A1
Revision date : 06.12.2021
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Version (Revision) : 3.2.0 (3.1.0)

Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65.

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

13. Waste codes/waste designations according to EWC/AVV · 15. National regulations

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The statement is derived from the properties of the single components.

16.5 Relevant H- and EUH-phrases (Number and full text)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.