

Arcanol LOAD220

Safety Data Sheet (UK REACH) (UK)

Date printed 10.07.2025, Revision 24.04.2025
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

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

1.2.1 Relevant uses

Grease

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Schaeffler (UK) Limited
Waleswood Road, Wales Bar
S26 5PN Sheffield / UNITED KINGDOM
Phone +44 19 09 51 05 00
Homepage www.schaeffler.co.uk
E-mail info.uk@schaeffler.com

Manufacturer

Schaeffler Technologies AG & Co. KG
Georg-Schäfer-Str. 30
97421 Schweinfurt / GERMANY
Phone +49 (0)9721 91 - 0
Homepage www.schaeffler.com

Address enquiries to

Technical information

info.uk@schaeffler.com

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)
Safety data sheets are available from the supplier.

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]

Skin Sens. 1: H317 May cause an allergic skin reaction.

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2.2 Label elements

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

Hazard pictograms



Signal word

WARNING

Contains:

Polysulfides, di-tert-dodecyl

Naphthenic acids, zinc salts

Dipentylammonium dipentylidithiocarbamate

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water / soap.

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

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

2.3 Other hazards

Human health dangers

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Environmental hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances not applicable

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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - < 5	Polysulfides, di-tert-dodecyl
	CAS: 68425-15-0, EINECS/ELINCS: 270-335-7, Reg-No.: 01-2119540516-41-XXXX
	GHS/CLP: Skin Sens. 1B: H317
1 - < 5	Naphthenic acids, zinc salts
	CAS: 12001-85-3, EINECS/ELINCS: 234-409-2, Reg-No.: 01-2120783834-41-XXXX
	GHS/CLP: Eye Irrit. 2: H319 - Skin Sens. 1B: H317 - Aquatic Chronic 2: H411
0,1 - < 1	Dipentylammonium dipentyldithiocarbamate
	CAS: 71902-20-0, EINECS/ELINCS: 276-172-8, Reg-No.: 01-2120793078-43-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Sens. 1B: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1
0,1 - < 1	Zinc oxide
	CAS: 1314-13-2, EINECS/ELINCS: 215-222-5, EU-INDEX: 030-013-00-7, Reg-No.: 01-2119463881-32-XXXX
	GHS/CLP: Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1

Comment on component parts

For full text of H-statements: see SECTION 16.
This product may contain one or more components that are not listed in NZIoC-Inventory.
All chemical substances in this material are included on or exempted from listing on the IECSC Inventory.

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	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.

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4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions
Headache
Malaise

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 Carbon dioxide.
Dry powder.
Foam.

Extinguishing media that must not be used Water.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Nitrogen oxides (NOx).
Sulphur oxides (SOx).

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

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

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Dispose of absorbed material in accordance within the regulations.

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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.

Wash hands before breaks and after work.

Use barrier skin cream.

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

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 container tightly closed.

Keep away from frost.

Protect from heat/overheating and from sun.

Do not keep at temperatures below 0°C.

Do not keep at temperatures above 40°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)

not relevant

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

not relevant

DNEL

Substance
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
There are no DNEL values established for the substance.
Zinc oxide, CAS: 1314-13-2
There are no DNEL values established for the substance.
Naphthenic acids, zinc salts, CAS: 12001-85-3
Industrial, inhalative, Long-term - systemic effects, 1,18 mg/m ³
Industrial, dermal, Long-term - systemic effects, 3,3 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 1,7 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,17 ng/kg bw/day
general population, inhalative, Long-term - systemic effects, 0,29 mg/m ³
Dipentylammonium dipentyldithiocarbamate, CAS: 71902-20-0
There are no DNEL values established for the substance.

PNEC

Substance
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
sewage treatment plants (STP), 1 g/L
sediment (freshwater), 3,85 mg/kg sediment dw
oral (food), 66,7 mg/kg food
sediment (seawater), 385 µg/kg sediment dw
Zinc oxide, CAS: 1314-13-2
sediment (freshwater), 182,8 mg/kg sediment dw
sediment (seawater), 201,9 mg/kg sediment dw
soil, 103,4 mg/kg soil dw
freshwater, 17,9 µg/L
seawater, 9 µg/L
sewage treatment plants (STP), 124,5 µg/L
Naphthenic acids, zinc salts, CAS: 12001-85-3
freshwater, 0,004 mg/L
seawater, 0 mg/L
sewage treatment plants (STP), 689,7 µg/L

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	sediment (freshwater), 0.015 mg/kg dw
	sediment (seawater), 0.002 mg/kg dw
	soil, 0.001 mg/kg dw
	Dipentylammonium dipentylthiocarbamate, CAS: 71902-20-0
	There are no PNEC values established for the substance.

8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Eye protection Safety glasses. (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further information.
0,4 mm: Butyl rubber, >120 min (EN 374-1/-2/-3).
0,4 mm; NBR: acrylonitrile butadiene rubber, >480 min (EN 374-1/-2/-3).

Skin protection light protective clothing

Other Avoid contact with eyes and skin.

Respiratory protection not applicable

Thermal hazards none

Delimitation and monitoring of the environmental exposition not determined

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	pasty
Color	yellow
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	> 250 (482°F)
Flash point [°C]	200 (392°F)
Flammability	Not highly flammable. Combustible
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	No information available.
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water [g/L]	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	No information available.
Kinematic viscosity	not relevant
Relative vapour density	not relevant
Melting point [°C]	> 170 (338°F)
Auto-ignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	not applicable

9.2 Other information

none

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

If product is heated above decomposition temperature toxic vapours may be released.

10.4 Conditions to avoid

No hazardous reactions known.

10.5 Incompatible materials

Oxidizing agent

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	
oral, Based on the available information, the classification criteria are not fulfilled.	
Substance	
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0	
LD50, oral, Rat, ca. 20000 mg/kg bw (ECHA)	
Zinc oxide, CAS: 1314-13-2	
LD50, oral, Rat, > 5000 mg/kg, OECD 401	
Naphthenic acids, zinc salts, CAS: 12001-85-3	
LD50, oral, Rat, > 2000 mg/kg	
Dipentylammonium dipentylidithiocarbamate, CAS: 71902-20-0	
LD50, oral, Rat, 300 - 2000 mg/kg bw	

Acute dermal toxicity

Product	
dermal, Based on the available information, the classification criteria are not fulfilled.	
Substance	
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0	
LD0, dermal, Rat, > 2000 mg/kg bw	
Zinc oxide, CAS: 1314-13-2	
LD50, dermal, Rat, > 2000 mg/kg	

Acute inhalational toxicity

Product	
inhalative, Based on the available information, the classification criteria are not fulfilled.	
Substance	
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0	
LC50, inhalativ (dust/mist), Rat, > 15,5 mg/l (ECHA), 4h	
Zinc oxide, CAS: 1314-13-2	
LC50, inhalative, Rat, > 5,7 mg/l (4h)	

Serious eye damage/irritation

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

Substance	
Zinc oxide, CAS: 1314-13-2	

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	Eye, non-irritating	
	Naphthenic acids, zinc salts, CAS: 12001-85-3	
	Eye, irritant	

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

	Substance
	Zinc oxide, CAS: 1314-13-2
	dermal, non-irritating
	Naphthenic acids, zinc salts, CAS: 12001-85-3
	dermal, no adverse effect observed

Respiratory or skin sensitisation May cause an allergic skin reaction.
Based on the available information, the classification criteria are fulfilled.
Calculation method

	Substance
	Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
	dermal, mouse, OECD 429, sensitising
	Zinc oxide, CAS: 1314-13-2
	dermal, non-sensitizing
	inhalative, non-sensitizing
	Naphthenic acids, zinc salts, CAS: 12001-85-3
	dermal, sensitising
	Dipentylammonium dipentyldithiocarbamate, CAS: 71902-20-0
	dermal, sensitising

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are not fulfilled.

	Substance
	Zinc oxide, CAS: 1314-13-2
	inhalative, non-irritating

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are not fulfilled.

	Substance
	Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
	NOAEL, oral, Rat, 1000 mg/kg bw/day, no adverse effect observed
	Zinc oxide, CAS: 1314-13-2

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	NOAEL, oral, Rat, 31,25 mg/kg bw/day (nominal), The effects observed are not sufficient for cl	
	Naphthenic acids, zinc salts, CAS: 12001-85-3	
	NOAEL, oral, Rat, 89,7 mg/kg bw/day	

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

	Substance
	Zinc oxide, CAS: 1314-13-2
	in vitro, negativ
	Naphthenic acids, zinc salts, CAS: 12001-85-3
	in vitro, negativ

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

- Fertility

	Substance
	Zinc oxide, CAS: 1314-13-2
	LOAEL, oral, Rat, 7,5 mg/kg bw/day (nominal)
	Naphthenic acids, zinc salts, CAS: 12001-85-3
	NOAEL, oral, Rat, 137,9 mg/kg bw/day, no adverse effect observed

- Development

	Substance
	Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
	NOAEL, oral, Rabbit, 800 mg/kg bw/day, no adverse effect observed
	Naphthenic acids, zinc salts, CAS: 12001-85-3
	NOAEL, oral, Rat, 344,8 mg/kg bw/day, no adverse effect observed

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

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

General remarks Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

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SECTION 12: Ecological information

12.1 Toxicity

Product

LC50, (96h), Danio rerio, > 100 mg/L
EC50, (48h), Daphnia magna, > 100 mg/L
EC50, (72h), Algae, > 100 mg/L

Substance
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
LC50, (96h), Danio rerio, > 100 mg/L, OECD 203
NOEC, (48h), Invertebrates, 100 µg/L
NOEC, (72h), Algae, 80 µg/L
ErC50, (72h), Pseudokirchneriella subcapitata, > 100 mg/l, OECD 201
Zinc oxide, CAS: 1314-13-2
LC50, (96h), Danio rerio, 1,55 mg/L
LC50, (48h), Daphnia magna, 7,1 mg/L
LC50, (72h), Desmodesmus subspicatus, 7,25 mg/L
Naphthenic acids, zinc salts, CAS: 12001-85-3
EC50, (72h), Algae, 4 mg/L
EL50, (48h), Daphnia magna, 35 mg/L
LL50, (96h), Fish, 100 mg/L
Dipentylammonium dipentylidithiocarbamate, CAS: 71902-20-0
EC50, (48h), Daphnia magna, 0.59 mg/L
EC50, (72h), Algae, 16 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

Substance
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
(28d), 0%, OECD 301 F, The product is not biodegradable.

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12.3 Bioaccumulative potential

not determined

Substance
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
BCF, < 0,01
log Pow, > 6,2

12.4 Mobility in soil

not determined

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

Do not discharge product unmonitored into the environment.

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

Disposal in an incineration plant in accordance with the regulations of the local authorities.
In according to RoHS!

Waste no. (recommended) 120112* spent waxes and fats

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Uncontaminated packaging may be reused.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances
150102
150104

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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

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 IMDG 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 IMDG not applicable

Air transport in accordance with IATA not applicable

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14.4 Packing group

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

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

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

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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/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) 2024/573; (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 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 \geq 0.1% of substances with the following restrictions. 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3
TRANSPORT-NATIONAL REGULATIONS (UK):	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025) EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	< 3%

15.2 Chemical safety assessment
not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

- H410 Very toxic to aquatic life with long lasting effects.
- H400 Very toxic to aquatic life.
- H302 Harmful if swallowed.
- H411 Toxic to aquatic life with long lasting effects.
- H319 Causes serious eye irritation.

- H317 May cause an allergic skin reaction.

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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

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16.3 Other information

Classification procedure Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

Modified position 8.1, 9.1, 11.1