

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

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

1.1 Product identifier

Trade name **Condalum BS 209**
Registration number (REACH) Not relevant (mixture)

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

Relevant identified uses Lubricants, greases, release products

1.3 Details of the supplier of the safety data sheet

FRIEDRICH SCHARR KG
Liebknechtstraße 50
70565 Stuttgart
Germany

Telephone: +49 711 7868-0
Telefax: +49 711 7868-489
e-mail: info@scharr.de
Website: www.scharr.de

e-mail (competent person) produktsicherheit@scharr.de (Produktsicherheit)

1.4 Emergency telephone number

Emergency information service +49 711 7868-237
This number is only available during the following office hours: Mon-Fri 07:00 - 17:00

Poison centre			
Country	Name	Postal code/city	Telephone
Germany	Giftinformation Freiburg	79106 Freiburg im Breisgau	+49 (0)761 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard class	Category	Hazard class and category	Hazard statement
hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

- signal word not required
- pictograms not required
- hazard statements
H412 Harmful to aquatic life with long lasting effects.

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

- precautionary statements
P273 Avoid release to the environment.
P501 Dispose of contents/container to industrial combustion plant.
- supplemental hazard information
EUH208 Contains Amine, C10-14-tert-Alkyl-. May produce an allergic reaction.

2.3 Other hazards
of no significance

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Polysulfides, di-tert-do-decyl	CAS No 68425-15-0 EC No 270-335-7 REACH Reg. No 01-2119540516-41-xxxx	1 - < 5	Aquatic Chronic 4 / H413	
Amine, C10-14-tert-Alkyl-	EC No 701-175-2 REACH Reg. No 01-2119456798-18-xxxx	< 1	Acute Tox. 4 / H302 Acute Tox. 3 / H311 Acute Tox. 2 / H330 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
C16-18-(even numbered, saturated and unsaturated)-alkylamines	CAS No 1213789-63-9 EC No 627-034-4 REACH Reg. No 01-2119473797-19-xxxx	< 1	Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 STOT RE 2 / H373 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Amine, C10-14-tert-Alkyl-	-	-	>500 mg/kg 251 mg/kg 0,5 mg/l/4h	oral dermal inhalation: vapour
C16-18-(even numbered, saturated and unsaturated)-alkylamines	-	M-factor (acute) = 10.0 M-factor (chronic) = 10.0	1.689 mg/kg	oral

For full text of abbreviations: see SECTION 16.

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

SECTION 4: First aid measures**4.1 Description of first aid measures**

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Self-protection of the first aider.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulties. Headache. Vertigo.

4.3 Indication of any immediate medical attention and special treatment needed

Subsequent observance for pneumonia and pulmonary oedema. Supervise the blood circulation.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂), Sand

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Danger of bursting container.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂), Phosphorus oxides (P_xO_y), Sulphur dioxide (SO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Provision of sufficient ventilation.

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

- specific designs for storage rooms or vessels

- Lagerklasse (storage class according to TRGS 510, 10 (combustible liquids) Germany)

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)								
Country	Name of substance	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
CH	Polysulfides, di-tert-dodecyl	68425-15-0	MAK		10		40	SUVA

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of substance	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
DE	Polysulfides, di-tert-dodecyl	68425-15-0	MAK		5		20	DFG
DE	Polysulfides, di-tert-dodecyl	68425-15-0	AGW		5		20	TRGS 900

Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours
time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Polysulfides, di-tert-dodecyl	68425-15-0	DNEL	32,9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Polysulfides, di-tert-dodecyl	68425-15-0	DNEL	46,7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Amine, C10-14-tert-Alkyl-		DNEL	12,5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Amine, C10-14-tert-Alkyl-		DNEL	12,1 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	DNEL	0,38 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	acute - local effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Polysulfides, di-tert-dodecyl	68425-15-0	PNEC	66,7 mg/kg	aquatic organisms	water	short-term (single instance)
Polysulfides, di-tert-dodecyl	68425-15-0	PNEC	1 g/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Polysulfides, di-tert-dodecyl	68425-15-0	PNEC	3,85 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Polysulfides, di-tert-dodecyl	68425-15-0	PNEC	0,385 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Amine, C10-14-tert-Alkyl-		PNEC	0,001 mg/l	aquatic organisms	freshwater	short-term (single instance)
Amine, C10-14-tert-Alkyl-		PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Amine, C10-14-tert-Alkyl-		PNEC	0,635 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Amine, C10-14-tert-Alkyl-		PNEC	2,14 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Amine, C10-14-tert-Alkyl-		PNEC	0,214 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Amine, C10-14-tert-Alkyl-		PNEC	0,428 mg/kg	terrestrial organisms	soil	short-term (single instance)
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	PNEC	0,26 µg/l	aquatic organisms	freshwater	short-term (single instance)
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	PNEC	0,026 µg/l	aquatic organisms	marine water	short-term (single instance)
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	PNEC	550 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	PNEC	3,76 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	PNEC	0,376 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	PNEC	10 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

Skin protection

- hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- type of material

NBR: acrylonitrile-butadiene rubber

- material thickness

0,4 mm

- breakthrough times of the glove material

>240 minutes (permeation: level 5)

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	light brown
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	193,7 °C at 99,8 kPa
Evaporation rate	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	0,6 vol% - 6,5 vol%
Flash point	>190 °C
Auto-ignition temperature	240 °C
pH (value)	not determined
Kinematic viscosity	95 mm ² /s at 40 °C
Solubility(ies)	not determined

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	<0,01 kPa at 20 °C
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Density and/or relative density

Density	0,88 g/cm ³ at 15 °C
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Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
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Other safety characteristics

Temperature class (EU, acc. to ATEX)	T3 (maximum permissible surface temperature on the equipment: 200°C)
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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Amine, C10-14-tert-Alkyl-		oral	>500 mg/kg
Amine, C10-14-tert-Alkyl-		dermal	251 mg/kg
Amine, C10-14-tert-Alkyl-		inhalation: vapour	0,5 mg/l/4h
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	oral	1.689 mg/kg

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Amine, C10-14-tert-Alkyl-		oral	LD50	>500 mg/kg	rat
Amine, C10-14-tert-Alkyl-		dermal	LD50	251 mg/kg	rat
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	oral	LD50	1.689 mg/kg	rat
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	dermal	LD50	>2.000 mg/kg	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Contains Amine, C10-14-tert-Alkyl-. May produce an allergic reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Harmful to aquatic life with long lasting effects.
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 2, obviously hazardous to water (Germany)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Polysulfides, di-tert-dodecyl	68425-15-0	LL50	>100 mg/l	fish	96 h
Amine, C10-14-tert-Alkyl-		LC50	1,3 mg/l	fish	96 h
Amine, C10-14-tert-Alkyl-		EC50	≤6 mg/l	aquatic invertebrates	48 h
Amine, C10-14-tert-Alkyl-		ErC50	0,44 mg/l	algae	72 h
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	LC50	0,84 mg/l	fish	96 h
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	EC50	0,32 mg/l	aquatic invertebrates	48 h
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	ErC50	0,39 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Amine, C10-14-tert-Alkyl-		EC50	63,5 mg/l	microorganisms	30 min
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	EC50	0,24 mg/l	aquatic invertebrates	21 d

Biodegradation

Data are not available.

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

12.2 Persistence and degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Polysulfides, di-tert-dodecyl	68425-15-0	oxygen depletion	0 %	28 d		ECHA
Amine, C10-14-tert-Alkyl-		oxygen depletion	22 %	28 d		ECHA
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	carbon dioxide generation	18 %	6 d		ECHA
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	oxygen depletion	34 %	5 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Polysulfides, di-tert-dodecyl	68425-15-0		>20 (20 °C)	
Amine, C10-14-tert-Alkyl-			2,9 (pH value: ~7, 23 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

Mineral-based non-chlorinated engine, gear and lubricating oils 13 02 05*

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- 14.1 UN number or ID number** not subject to transport regulations
- 14.2 UN proper shipping name** not relevant
- 14.3 Transport hazard class(es)** none
- 14.4 Packing group** not assigned
- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**
There is no additional information.
- 14.7 Maritime transport in bulk according to IMO instruments**
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Relevant provisions of the European Union (EU)

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

VOC Deco-Paint Directive 2004/42/EC

VOC content	2,34 %
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Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

Industrial Emissions Directive (IED)

VOC content	2,134 %
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Austria)

Ordinance on combustible liquids (VbF)

not applicable (mass fraction of liquids with a flash point of more than 100° C or of solids is higher than 30 %)

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 2 obviously hazardous to water
(water hazard class)

National regulations Switzerland

Ordinance on the incentive tax on volatile organic compounds (VOCV)

The product is exempt from the tax. Product in which the VOC content does not exceed 3 per cent (% by weight).

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

Abbr.	Descriptions of used abbreviations
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

Abbr.	Descriptions of used abbreviations
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
SUVA	Grenzwerte am Arbeitsplatz, Suva
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Condalum BS 209

Version number: 1.0

Date of compilation: 28.07.2021

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.