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

Trade name : Lithofin MN Betoncoating -black-

Revision date : 09.01.2026 **Version (Revision) :** 4.0.0 (3.0.1)
Print date : 27.02.2026

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

1.1 Product identifier
Lithofin MN Betoncoating -black-

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
Mixture Sealer, Emulsions/Coating products

1.3 Details of the supplier of the safety data sheet

Supplier :	Lithofin AG
Street :	Heinrich-Otto-Str. 36
Postal code/City :	73240 Wendlingen
Country :	GERMANY
Telefone :	+49 7024 9403 0
Telefax :	+49 7024 9403 40
Contact :	Technical Department
E-mail :	info@lithofin.de
Emergency telephone number :	+49 7024 9403 0
	(Only available during office hours)

1.4 Emergency telephone number
see section 1.3

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP]
None
Additional information
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].
Remark
For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Precautionary statements

P102	Keep out of reach of children.
P273	Avoid release to the environment.
P501	Dispose of contents/container in accordance with local and national regulations.

Special rules for supplemental label elements for certain mixtures

EUH208	Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE ; REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1).May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Other labelling

2.3 Other hazards
Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

2.4 Additional information

see section 12.5

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

1,2-BENZISOTHIAZOL-3(2H)-ONE ; EC No. : 220-120-9; CAS No. : 2634-33-5

Weight fraction :	≥ 0,0036 - < 0,036 %
Classification 1272/2008 [CLP] :	Acute Tox. 2 ; H330 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1A ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410
Specific Conc. Limits :	Skin Sens. 1 ; H317: C ≥ 0,036 % • (M Acute=1) • (ATE - inhalative (dust, mist) : 0,21 mg/L) • (ATE - oral : 450 mg/kg)

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; REACH No. : 01-2120764691-48-xxxx ; CAS No. : 55965-84-9

Weight fraction :	≥ 0,00015 - < 0,0015 %
Classification 1272/2008 [CLP] :	Acute Tox. 2 ; H310 Acute Tox. 2 ; H330 Acute Tox. 3 ; H301 Skin Corr. 1C ; H314 Eye Dam. 1 ; H318 Skin Sens. 1A ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410 EUH071
Specific Conc. Limits :	Eye Dam. 1 ; H318: C ≥ 0,6 % • Skin Corr. 1C ; H314: C ≥ 0,6 % • Eye Irrit. 2 ; H319: C ≥ 0,06 % • Skin Irrit. 2 ; H315: C ≥ 0,06 % • Skin Sens. 1A ; H317: C ≥ 0,0015 % • (M=100)

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH

None (below the concentration limit)

Contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH

None (below the concentration limit)

Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation.

For full text of Hazard- and EU Hazard-statements: 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. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious but breathing normally, place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

After eye contact

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

Following ingestion
When in doubt or if symptoms are observed, get medical advice. Rinse mouth thoroughly with water. Do NOT induce vomiting.

Self-protection of the first aider
First aider: Pay attention to self-protection!

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

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Water spray jet ABC-powder Foam

Unsuitable extinguishing media
Full water jet Strong water jet

5.2 Special hazards arising from the substance or mixture
Hazardous combustion products
Carbon monoxide Carbon dioxide (CO2)

5.3 Advice for firefighters
Use suitable breathing apparatus.

Special protective equipment for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information
Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove persons to safety.

6.2 Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up
For cleaning up
Suitable material for taking up: Universal binder
Clean contaminated articles and floor according to the environmental legislation.

Other information
Clear spills immediately.

6.4 Reference to other sections
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

When using do not eat, drink, smoke, sniff.

Protective measures

not useable after freezing. Inhalation of vapours or spray/mists Skin contact Eye contact Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Measures to prevent fire

The product is not: Flammable Usual measures for fire prevention.

Fire class : -

Advices on general occupational hygiene

P362+P364 - Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep/Store only in original container. The floor should be leak tight, jointless and not absorbent. Ensure adequate ventilation of the storage area.

Hints on joint storage

Storage class (TRGS 510) : 12
Protect from frost Yes
Recommended storage temperature 5 - 25 °C

Further information on storage conditions

Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

Recommendation

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

2-(2-ETHOXYETHOXY)ETHANOL ; CAS No. : 111-90-0
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 6 ppm / 35 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 06.05.2025

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT ; CAS No. : 3811-73-2
Limit value type (country of origin) : KZW (A)
Limit value : 4 mg/m³
Peak limitation : 15Miw, 4x
Remark : H
Version :

Limit value type (country of origin) : TMW / TWA (A)
Limit value : 1 mg/m³
Remark : H
Version :

Limit value type (country of origin) : KZG / STEL (CH)
Parameter : E: inhalable fraction
Limit value : 0,4 mg/m³
Remark : SSC, H
Version :

Limit value type (country of origin) : MAK (CH)
Parameter : E: inhalable fraction
Limit value : 0,2 mg/m³
Remark : SSc,H
Version :

Limit value type (country of origin) : TWA (DK)
Limit value : 1 mg/m³
Remark : H
Version :

1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 370 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 06.05.2025

Limit value type (country of origin) : TRGS 903 (D)
Parameter : 1-methoxypropan-2-ol / Urine (U) / End of exposure or end of shift
Limit value : 15 mg/l
Version : 10.10.2024

Limit value type (country of origin) : STEL (EC)
Limit value : 150 ppm / 568 mg/m³
Remark : Skin
Version : 09.03.2022

Limit value type (country of origin) : TWA (EC)
Limit value : 100 ppm / 375 mg/m³
Remark : Skin
Version : 09.03.2022

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9

Limit value type (country of origin) : TMW / TWA (A)
Limit value : 0,05 mg/m³
Remark : Sh
Version :

Limit value type (country of origin) : KZG / STEL (CH)
Parameter : E: inhalable fraction
Limit value : 0,4 mg/m³
Remark : SSc, S
Version :

Limit value type (country of origin) : MAK (CH)
Parameter : E: inhalable fraction
Limit value : 0,2 mg/m³
Remark : SSc, S
Version :

DNEL-/PNEC-values

DNEL/DMEL

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9

Limit value type : DNEL Consumer (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 0,04 mg/m³

Limit value type : DNEL Consumer (local)
Exposure route : Inhalation
Exposure frequency : Long-term

Limit value :	0,02 mg/m³
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Short-term
Limit value :	0,11 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	0,09 mg/kg bw/day
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	0,04 mg/m³
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	0,02 mg/m³

PNEC

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	3,39 µg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Limit value :	3,39 µg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	3,39 µg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	0,027 mg/kg dw
Limit value type :	PNEC (Sediment, marine water)
Limit value :	0,027 mg/kg dw
Limit value type :	PNEC (Soil)
Limit value :	0,01 mg/kg dw
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	0,23 mg/l

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation of the storage area.
Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Eye/face protection

Usually no personal eye/face protection necessary. Eye/face protection necessary at: Splashes, Contact with eyes, Spray application.

Suitable eye protection

Eye glasses with side protection goggles

Required properties

EN 166

Skin protection

Usually no personal skin protection necessary. Skin protection necessary at: Splashes, Contact with skin, Spray application.

Hand protection

Suitable gloves type : Gloves with long cuffs

Suitable material : NBR (Nitrile rubber), 0,4mm, >8h; Butyl caoutchouc, 0,5mm, >8h; FKM (fluoro rubber), 0,7mm, >8h;

Recommended glove articles : Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

Additional hand protection measures : Check leak tightness/impermeability prior to use.

Remark : Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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. Barrier creams are not substitutes for body protection.

Body protection

Protective clothing.

Suitable protective clothing : Chemical protection clothing Chemical resistant safety shoes

Required properties : acid-resistant. alkali-resistant.
Protective clothing. : EN 13034 EN 14605
Chemical resistant safety shoes : EN ISO 20345

Remark : Barrier creams are not substitutes for body protection.

Respiratory protection

Usually no personal respirative protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation. high concentrations spray application

Suitable respiratory protection apparatus

Full-/half-/quarter-face masks (EN 136/140) Combination filtering device ABEK-P1

Remark

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

General information

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work. Do not breathe gas/fumes/vapour/spray.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : black

Odour : unspecific

Safety characteristics

Physical state :			Liquid		
Melting point/freezing point :	(1013 hPa)	approx.	-1	°C	
Initial boiling point and boiling range :	(1013 hPa)	approx.	99	°C	
Decomposition temperature :	(1013 hPa)		not determined		
Flash point :			not applicable		closed cup (EN ISO 3679)
Auto-ignition temperature :			not determined		
Sustaining combustion			No		UN Test L2:Sustained combustibility test
Flammability :			not determined		
Lower explosion limit :			not determined		
Upper explosion limit :			not determined		
Vapour pressure :	(50 °C)	<	3000	hPa	
Density :	(20 °C)		1,02	g/cm³	Pyknometer (DIN EN ISO 2811-1)
Relative density :	(20 °C)		not determined		
Solvent separation test :	(20 °C)	<	3	%	Test L1: Solvent separation test (UN)

Water solubility	(20 °C)		emulsifiable		
Fat solubility :	(20 °C)		Not determined.		
pH :		approx.	8		DIN 19268
log P O/W :			not determined		(Mixture)
Kinematic viscosity :	(23 °C)	<	6,6	mm^2/s	DIN EN ISO 2431
Odour threshold :			not determined		
Vapourisation rate :			not determined		
VOC content-EC			6	Weight-%	*
VOC content-EC			61	g/l	*
VOC-France			A+		Décret no 2011-321 du 23 mars 2011
Flammable solids :	Not applicable.				

(* VOC-EC = „Volatile organic compound (VOC)" means any organic compound having an initial boiling point less than or equal to 250°C measured at a standard pressure of 101,3 kPa; VOC-value in g/L)

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

Acute oral toxicity

Parameter :	LD50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2500 mg/kg
Method :	OECD 401
Parameter :	LD50 (REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	457 mg/kg

Acute dermal toxicity

Parameter :	LD50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)

Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 402
Parameter :	LD50 (REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9)
Exposure route :	Dermal
Species :	Rat
Effective dose :	660 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	5,7 mg/l
Exposure time :	4 h
Method :	OECD 403
Parameter :	LC50 (REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	1,23 mg/m^3
Exposure time :	4 h

Specific effects (Longterm animal experiment)
There are no data available on the mixture itself.

Corrosion
slightly irritant but not relevant for classification.

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

Repeated dose toxicity (subacute, subchronic, chronic)
There are no data available on the mixture itself.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Carcinogenicity
Based on available data, the classification criteria are not met.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

11.2 Information on other hazards
No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Based on available data, the classification criteria are not met.

Acute (short-term) fish toxicity

Parameter :	LC50 (REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9)
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	0,22 mg/l
Exposure time :	96 hour(s)
Method :	OECD 203

Chronic (long-term) fish toxicity

Parameter :	NOEC (REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9)
Species :	Fish
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	0,098 mg/l
Exposure time :	28 day(s)
Method :	OECD 215

Acute (short-term) toxicity to aquatic invertebrates

Parameter :	EC50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Species :	Daphnia
Evaluation parameter :	Acute (short-term) toxicity to aquatic invertebrates
Effective dose :	32 mg/l
Exposure time :	48 hour(s)
Method :	OECD 202
Parameter :	EC50 (REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9)
Species :	Daphnia
Evaluation parameter :	Acute (short-term) toxicity to aquatic invertebrates
Effective dose :	6,7 mg/l
Exposure time :	48 hour(s)
Method :	OECD 202

Chronic (long-term) toxicity to aquatic invertebrate

Parameter :	NOEC (REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9)
Species :	Daphnia
Evaluation parameter :	Chronic (long-term) toxicity to aquatic invertebrate
Effective dose :	0,004 mg/l
Exposure time :	21 day(s)
Method :	OECD 211

Acute (short-term) toxicity to algae and cyanobacteria

Parameter :	EC50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Species :	Algae
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	8,4 mg/l
Exposure time :	72 hour(s)
Method :	OECD 201
Parameter :	EC50 (REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9)
Species :	Algae
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	0,0052 mg/l
Exposure time :	48 hour(s)

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter :	NOEC (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Species :	Algae
Evaluation parameter :	Chronic (long-term) toxicity to aquatic algae and cyanobacteria
Effective dose :	0,9 mg/l
Exposure time :	72 hour(s)
Method :	OECD 201
Parameter :	NOEC (REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9)
Species :	Algae
Evaluation parameter :	Chronic (long-term) toxicity to aquatic algae and cyanobacteria
Effective dose :	0,00064 mg/l
Exposure time :	48 hour(s)

Sewage treatment plant

Observe local regulations concerning effluent treatment.

12.2 Persistence and degradability

There are no data available on the mixture itself.

Biodegradation

There are no data available on the mixture itself.

12.3 Bioaccumulative potential

There are no data available on the mixture itself.

12.4 Mobility in soil

There are no data available on the mixture itself.

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 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

There are no data available on the mixture itself.

12.8 Additional ecotoxicological information

Additional information

The product has not been tested.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of waste according to applicable legislation.
Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

Waste code (EWC/AVV) : 07 01 99 (wastes not otherwise specified)

After intended use

Do not allow to enter into surface water or drains. Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Delivery to an approved waste disposal company.

Disposal operations

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

SECTION 14: Transport information

14.1 UN number or ID 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 Maritime transport in bulk according to IMO instruments
Not required.

SECTION 15: Regulatory information

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

EU legislation

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures (clp)
DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on waste (2000/532/EC)
EN 2:1992 (DIN EN 2:2005-01)

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 75

Restrictions of occupation

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Other regulations (EU)

Regulation (EC) No. 648/2004 [Detergents regulation]
Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work. (Directive 2000/39/EC, Directive 2006/15/EC, Directive 2009/161/EC)

Regulation (EU) 2024/590 on substances that deplete the ozone layer

Contains the following substances that deplete the ozone layer

None

Regulation (EC) 2019/1021 [POP Regulation]

Not listed/not relevant.
Name of the persistent organic pollutant (POP): -

Regulation (EU) 2019/1148 (marketing and use of explosives precursors)

Not listed/not relevant.

Regulation (EU) 649/2012 (PIC)

Not listed/not relevant.
Chemicals qualifying for PIC notification: -

Regulation (EU) No 2024/573 on fluorinated greenhouse gases [Greenhouse Gases Regulation]

Not listed/not relevant.
Regulation (EU) No 2024/573 on fluorinated greenhouse gases [Greenhouse Gases Regulation] : -

National regulations

Observe in addition any national regulations!
Germany:
TRGS 201 (Classification and Labelling of Activities involving Hazardous Substances)
TRGS 400 (Risk assessment for activities involving hazardous substances)
TRGS 401 (Risks resulting from skin contact)
TRGS 500 (Protective measures)
TRGS 510 (Storage of hazardous substances in non-stationary containers)
TRGS 555 (Working instruction and information for workers)

Water hazard class

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

Other regulations, restrictions and prohibition regulations

Switzerland

VOCV-Regulation

Maximum VOC content (Switzerland) : 0 Weight-% according to VOCV

15.2 Chemical Safety Assessment

For this substance/mixture a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Label elements · 08. Occupational exposure limit values · 11. Corrosion · 11. Skin corrosion/irritation · 11. Serious eye damage/eye irritation · 11. STOT-repeated exposure · 15. Water hazard class

16.2 Abbreviations and acronyms

ABC-Pulver	Extinguishing powder for fire class A, B and C
ABEK-P1	combination filter
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AVV	Abfallverzeichnis-Verordnung (Waste Regulation)
AWSV	Ordinance on facilities for the handling of substances hazardous to water
BGR	BG rules and regulations
ca.	circa
CAS	Chemical Abstracts Service
CLP	classification, labelling and packaging
CMR	Carcinogen, mutagen or toxic for reproduction
DIN	German Institute for Standardization
DNEL	Derived No-Effect Level
EAK/EWC/EAC/CWR/CER	European Waste Catalogue
EC50 / CE50	Effective Concentration 50%
EG / EC / CE	European Community
EN	European Standard
EUH	supplemental hazard statement of the european union
GefStoffV	Gefahrstoffverordnung (Hazardous Substances Ordinance)
GHS / SGH	Globally Harmonised System
H-Sätze	hazard statements
IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

ICAO-TI	International Civil Aviation Organization-Technical Instructions
IMDG-Code	International Maritime Dangerous Goods Code
ISO	International Organization for Standardization
LC50 / CL50	Lethal Concentration 50%
LD50 / DL50	Lethal Dose 50%
log P O/W	Partition coefficient n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (marine pollution)
NOAEL (DSET)	No observed adverse effect level
NOEC (CSEO)	No observed effect concentration
Nr.	Number
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative and toxic
pH	Potentia hydrogenii
PIC	prior informed consent
PNEC	Predicted No-Effect Concentration
POP	Persistent organic pollutants
P-Sätze	precautionary statements
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Carriage of Dangerous Goods by Rail
STEL / LECT	short-term exposure limit
TRGS	Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)
TWA / MPT	time-weighted average
UN/ONU	United Nations
VOC/COV/VOS/LZO	Volatile Organic Compound
VOCV	Ordinance on the Incentive Tax on Volatile Organic Compounds (SR 814.018)
vPvB	very persistent and very bioaccumulative
WGK	Wassergefährdungsklasse (Water hazard class)

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu. For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3 Key literature references and sources for data

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
ECHA: Registered substances (https://echa.europa.eu/information-on-chemicals/registered-substances)
REACH Article 59: Candidate List of substances of very high concern for Authorisation (https://echa.europa.eu/candidate-list-table)

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

Hazard statements for physical hazards : On basis of test data.
Hazard statements for health hazards : Calculation method.
Hazard statements for environmental hazards : Calculation method.

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

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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.