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

1.1 Product identifier

Master Mould 100
UFI: SJ60-N07D-M00W-32DN

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

Relevant identified uses

Sectors of use [SU]

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Industrial uses

Products Category [PC]

PC-CLN-2 - All-purpose (or multi-purpose) non-abrasive cleaners

Uses advised against

Do not use for medical-clinical purposes.

1.3 Details of the supplier of the safety data sheet

Supplier

Bio-Circle Surface Technology GmbH

Street : Berensweg 200

Postal code/City : 33334 Gütersloh

Telephone : +49 5241 9443 0

Telefax : +49 5241 9443 44

Information contact :

Product application:	ae@bio-circle.de
Orders:	www.bio-circle.de service@bio-circle.de
Current safety data sheet:	www.bio-circle.de [DE + EN] service@bio-circle.de
Questions about the contents of the safety data sheet:	ehs@bio-circle.de

1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours
(Monday to Thursday from 8 am to 4 pm and Friday from 8 am to 3 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

2.2 Label elements

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

Hazard pictograms



Corrosion (GHS05)

Signal word

Danger

Hazard components for labelling

DISODIUM METASILICATE ; CAS No. : 6834-92-0

Hazard statements

H314	Causes severe skin burns and eye damage.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER/doctor/....
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

2.3 Other hazards

Adverse human health effects and symptoms

This product does not contain any substance in concentrations of 0.1% or more that exhibits endocrine-disrupting properties in humans.

Adverse environmental effects

This product does not contain any substance in concentrations of 0.1% or more that exhibits endocrine-disrupting properties toward non-target organisms.
This product does not contain any substance classified as a PBT or vPvB in concentrations of 0.1% or more.
This product does not contain any substance classified as a PMT or vPvM in concentrations of 0.1% or more.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

DISODIUM METASILICATE ; REACH No. : 01-2119449811-37-XXXX ; EC No. : 229-912-9; CAS No. : 6834-92-0

Weight fraction : ≥ 5 - < 10 %
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 STOT SE 3 ; H335

2-(2-BUTOXYETHOXY)ETHANOL ; REACH No. : 01-2119475104-44-XXXX ; EC No. : 203-961-6; CAS No. : 112-34-5

Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319
Substance with a common (EC) occupational exposure limit value.

POTASSIUM CUMENESULFONATE ; REACH No. : 01-2119489427-24-XXXX ; EC No. : 629-764-9; CAS No. : 164524-02-1

Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

SODIUM CUMENESULPHONATE ; REACH No. : 01-2119489411-37-XXXX ; EC No. : 239-854-6; CAS No. : 15763-76-5

Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; REACH No. : 01-0000016977-53-XXXX ; EC No. : 423-270-5; CAS No. : 164462-16-2

Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290

Additional information

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.

Following inhalation
Remove casualty to fresh air and keep warm and at rest.

In case of skin contact
After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

After eye contact
Protect uninjured eye. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion
Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

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 ; Foam ; Extinguishing powder ; Carbon dioxide (CO2) ; Sand

Unsuitable extinguishing media
Full water jet

5.2 Special hazards arising from the substance or mixture
Hazardous combustion products
In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO2) , Sulphur oxides , Silicon dioxide (SiO2)

5.3 Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information
The product itself does not burn. Move undamaged containers from immediate hazard area if it can be done safely. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Special danger of slipping by leaking/spilling product. Use personal protection equipment.

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

6.3 Methods and material for containment and cleaning up
Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

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

Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against : Frost .

Requirements for storage rooms and vessels

The floor should be leak tight, jointless and not absorbent.
Suitable container/equipment material: Stainless steel ; Polyethylene (PE)

Hints on joint storage

Storage class (TRGS 510) : 8B

Do not store together with
Food and feedingstuffs

Further information on storage conditions

Storage temperature : 2°C - 35°C

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

Limit value type (country of origin) :	TRGS 900 (D)
Limit value :	10 ppm / 67 mg/m³
Peak limitation :	1,5(I)
Remark :	Y
Version :	01.07.2013
Limit value type (country of origin) :	STEL (EC)
Limit value :	15 ppm / 101,2 mg/m³
Version :	07.02.2006
Limit value type (country of origin) :	TWA (EC)
Limit value :	10 ppm / 67,5 mg/m³
Version :	20.06.2019

DNEL-/PNEC-values

DNEL/DMEL

DISODIUM METASILICATE ; CAS No. : 6834-92-0

Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	1,55 mg/m³
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	0,74 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	0,74 mg/kg bw/day
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	6,22 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal

Exposure frequency : Long-term
Limit value : 1,49 mg/kg

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 6,25 mg/kg bw/day
Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 67,5 mg/m^3
Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 101,2 mg/m^3

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1
Limit value type : DNEL Consumer (local)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,048 mg/cm^2

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5
Limit value type : DNEL Consumer (local)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,048 mg/cm^2
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 6,6 mg/m^3

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 6,6 mg/m^3
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 68,1 mg/kg bw/day

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 68,1 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 3,8 mg/kg bw/day

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 3,8 mg/kg bw/day
Limit value type : DNEL worker (local)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,096 mg/cm^2

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5
Limit value type : DNEL worker (local)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,096 mg/cm^2
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 37,4 mg/m^3
POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 37,4 mg/m^3
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 191 mg/kg bw/day
SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 191 mg/kg bw/day
ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 2,28 mg/m^3
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 2,62 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 2,62 mg/kg bw/day
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 7,34 mg/kg bw/day
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 12,93 mg/m^3

PNEC

DISODIUM METASILICATE ; CAS No. : 6834-92-0
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 7,5 mg/l
Limit value type : PNEC (Aquatic, intermittent release)
Limit value : 7,5 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 1 mg/l
Limit value type : PNEC (Sewage treatment plant)
Limit value : 1000 mg/l
2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5
Limit value type : PNEC (Aquatic, freshwater)

Limit value : 1,1 mg/l
Limit value type : PNEC (Aquatic, intermittent release)
Limit value : 11 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,11 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 4,4 mg/kg dw
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,44 mg/kg dw
Limit value type : PNEC (Soil)
Limit value : 0,32 mg/kg dw
Limit value type : PNEC (Secondary poisoning)
Limit value : 56 mg/kg food

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,1 mg/l

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,1 mg/l
Limit value type : PNEC (Aquatic, intermittent release)
Limit value : 1 mg/l

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1
Limit value type : PNEC (Aquatic, intermittent release)
Limit value : 1 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,01 mg/l

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,01 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 0,372 mg/kg dw

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1
Limit value type : PNEC (Sediment, freshwater)
Limit value : 0,372 mg/kg dw
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,0372 mg/kg dw

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,0372 mg/kg dw
Limit value type : PNEC (Soil)
Limit value : 0,016 mg/kg dw

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1
Limit value type : PNEC (Soil)
Limit value : 0,016 mg/kg dw
Limit value type : PNEC (Sewage treatment plant)
Limit value : 100 mg/l

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5
Limit value type : PNEC (Sewage treatment plant)
Limit value : 100 mg/l

ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2
Limit value type : PNEC (Soil)
Limit value : 2,5 mg/kg dw

8.2 Exposure controls

Personal protection equipment

Eye/face protection



Wear suitable safety goggles in case of splash.

Suitable eye protection

EN 166.

Skin protection

Hand protection



Suitable gloves type : EN 374.

Suitable material : NBR (Nitrile rubber)

Breakthrough time : 480 min.

Thickness of the glove material : 0.4 mm

Remark : 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. No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. 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.

Respiratory protection



Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus

Combination filtering device

Type : A

Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (DGUV 112-190).

General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

8.3 Additional information

The minimum requirements for safety and health protection when employees use personal protective equipment at work (89/656/EEC) must be observed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : colourless

Odour

characteristic

Safety characteristics

Freezing point :	(1013 hPa)	<=	0	°C	
Initial boiling point and boiling range :	(1013 hPa)	approx.	100	°C	
Flash point :			not applicable		DIN EN ISO 13736
Auto-ignition temperature :			not applicable		
Flammability :			non-flammable		
Lower explosion limit :			none		
Upper explosion limit :			none		
Vapour pressure :	(20 °C)	<	24	hPa	Calculated
Density :	(20 °C)	approx.	1,07	g/cm³	
Solvent separation test :	(20 °C)		not applicable		
Water solubility :	(20 °C)		completely miscible		
pH :	(20 °C)		13,4		
Cinematic viscosity :	(20 °C)	<	30	mm²/s	
Relative vapour density :	(20 °C)		not determined		
Maximum VOC content (2010/75/EC) :			0	Weight-%	
Maximum VOC content (Switzerland VOCV; SR 814.018) :			3,8	Weight-%	
Taxable VOC content (Switzerland VOCV; SR 814.018 Annex 1) :			3,8	Weight-%	

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No known hazardous decomposition products.
Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

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

Acute toxicity

Acute oral toxicity

Parameter :	LD50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Exposure route :	Oral
Species :	Mouse
Effective dose :	770 - 820 mg/kg
Parameter :	LD50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	1152 - 1349 mg/kg

Parameter : LD50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Oral
Species : Mouse
Effective dose : 5530 mg/kg
Method : OECD 401
Parameter : LD50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route : Oral
Species : Rat
Effective dose : > 7000 mg/kg
Method : OECD 401
Parameter : LD50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Exposure route : Oral
Species : Rat
Effective dose : > 7000 mg/kg
Method : OECD 401
Parameter : LD50 (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Exposure route : Oral
Species : Rat
Effective dose : > 4000 mg/kg

Acute dermal toxicity

Parameter : LD50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Exposure route : Dermal
Species : Rat
Effective dose : > 5000 mg/kg
Parameter : LD50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : 2764 mg/kg
Method : OECD 402
Parameter : LD50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg
Method : OECD 402
Parameter : LD50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Method : OECD 402
Parameter : LD50 (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Exposure route : Dermal
Species : Rat
Effective dose : > 4000 mg/kg
Method : OECD 402

Acute inhalation toxicity

Parameter : LC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Exposure route : Inhalation
Species : Rat
Effective dose : > 2,06 mg/l
Exposure time : 4 h
Parameter : LC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route : Inhalation
Species : Rat
Effective dose : > 6,41 mg/l

Exposure time :	232 min
Method :	OECD 403
Parameter :	LC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 6,41 mg/l
Exposure time :	232 min
Method :	OECD 403
Parameter :	LC50 (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 5 mg/l

Corrosion

Skin corrosion/irritation

Parameter :	Skin corrosion/irritation (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Species :	Rabbit
Result :	Causes burns
Method :	OECD 404

Causes severe burns.

Serious eye damage/eye irritation

Parameter :	Serious eye damage/eye irritation (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Result :	Causes serious eye damage
Parameter :	Serious eye damage/eye irritation (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species :	Rabbit
Result :	Causes serious eye irritation
Parameter :	Serious eye damage/eye irritation (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species :	Rabbit
Result :	Causes serious eye irritation
Method :	OECD 405
Parameter :	Serious eye damage/eye irritation (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Species :	Rabbit
Result :	Causes serious eye irritation
Method :	OECD 405

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

No further relevant information available.

Sensitisation to the respiratory tract

No further relevant information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No further relevant information available.

Germ cell mutagenicity

No further relevant information available.

Reproductive toxicity

No further relevant information available.

STOT-single exposure

No further relevant information available.

STOT-repeated exposure

No further relevant information available.

Aspiration hazard

No further relevant information available.

11.2 Information on other hazards

Endocrine disrupting properties

This product does not contain any substance in concentrations of 0.1% or more that exhibits endocrine-disrupting properties in humans.

Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Additional information

Preparation not tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	2320 mg/l
Exposure time :	96 h
Parameter :	LC50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species :	Lepomis macrochirus (Bluegill)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1300 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species :	Cyprinus carpio (Common Carp)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	96 h
Parameter :	LC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Species :	Cyprinus carpio (Common Carp)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/kg
Exposure time :	96 h
Parameter :	LC50 (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Species :	Danio rerio (zebrafish)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 110 mg/l
Exposure time :	96 h
Method :	Regulation (EC) No. 440/2008, Annex C.1

Chronic (long-term) fish toxicity

Parameter :	NOEC (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	= 100 mg/l
Exposure time :	28 D
Method :	OECD 204

Acute (short-term) toxicity to crustacea

Parameter :	EC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	1700 mg/l
Exposure time :	48 h
Method :	OECD 202
Parameter :	EC50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	> 100 mg/l
Exposure time :	48 h
Method :	OECD 202
Parameter :	EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	> 100 mg/l
Exposure time :	48 h
Parameter :	EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	> 100 mg/l
Exposure time :	48 h
Parameter :	EC50 (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	> 100 mg/l
Exposure time :	48 h
Method :	Regulation (EC) No. 440/2008, Annex C.2

Chronic (long-term) toxicity to aquatic invertebrate

Parameter :	NOEC (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Chronic (long-term) toxicity to aquatic invertebrate
Effective dose :	>= 100 mg/l
Exposure time :	21 D
Method :	Regulation (EC) No. 440/2008, Annex C.20

Acute (short-term) toxicity to algae and cyanobacteria

Parameter :	EC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Species :	Scenedesmus subspicatus
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	207 mg/l
Exposure time :	72 h
Method :	DIN 38412 / part 9
Parameter :	EC50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species :	Scenedesmus subspicatus
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	> 100 mg/l
Exposure time :	48 h
Method :	OECD 201
Parameter :	EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species :	Desmodesmus subspicatus
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	> 100 mg/l
Exposure time :	72 h
Parameter :	EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)

Species :	Desmodesmus subspicatus
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	> 100 mg/l
Exposure time :	72 h
Parameter :	EC50 (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Species :	Scenedesmus subspicatus
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	> 200 mg/l
Exposure time :	72 h

Toxicity to microorganisms

Parameter :	EC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Species :	Toxicity to microorganisms
Effective dose :	> 100 mg/l
Exposure time :	3 h
Parameter :	EC10 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species :	Toxicity to microorganisms
Effective dose :	> 1995 mg/l
Exposure time :	30 min
Parameter :	EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species :	Toxicity to microorganisms
Effective dose :	> 1000 mg/l
Exposure time :	3 h
Parameter :	EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Species :	Toxicity to microorganisms
Effective dose :	> 1000 mg/l

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation (Air)

Parameter :	Half-life time (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Degradation rate :	4,8 h
Method :	Calculated

Biodegradation

Parameter :	BOD (% of COD) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	95 %
Test duration :	28 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301C
Parameter :	Biodegradation (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	99,8 %
Test duration :	28 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301B
Parameter :	Biodegradation (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	99,8 %
Test duration :	28 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301B

Parameter :	BOD (% of ThOD) (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Inoculum :	Degree of elimination
Evaluation parameter :	Aerobic
Degradation rate :	> 80 - 90 %
Test duration :	28 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301F
Parameter :	DOC reduction (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Inoculum :	Degree of elimination
Evaluation parameter :	Aerobic
Degradation rate :	> 90 - 100 %
Test duration :	28 D
Method :	OECD 301F

12.3 Bioaccumulative potential

Parameter :	Partition coefficient n-octanol/water (log value) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Value :	1
	20 °C
Method :	OECD 117
Parameter :	Partition coefficient n-octanol/water (log value) (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Value :	-4
	25 °C

No indication of bioaccumulation potential.

12.4 Mobility in soil

Adsorption

Parameter :	Henry's Law Constant (ALANINE N,N-BIS(CARBOXYMETHYL), -TRISODIUM SALT ; CAS No. : 164462-16-2)
Effective dose :	0 $Pa.m^3/mol$

12.5 Results of PBT and vPvB assessment

This product does not contain any substance classified as a PBT or vPvB in concentrations of 0.1% or more.

12.6 Endocrine disrupting properties

This product does not contain any substance in concentrations of 0.1% or more that exhibits endocrine-disrupting properties toward non-target organisms.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

07 06 01* (Aqueous washing liquids and mother liquors)
20 01 29* (Detergents containing hazardous substances)

Other disposal recommendations

Dispose of waste according to applicable legislation. Dispose of contents/container to an appropriate recycling or disposal facility. Contaminated packages must be completely emptied and can be re-used following proper cleaning (Water (with cleaning agent)). Handle contaminated packages in the same way as the substance itself.

13.2 Additional information

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

SECTION 14: Transport information

14.1 UN number or ID number

UN 3266

14.2 UN proper shipping name

Land transport (ADR/RID)

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE)

Sea transport (IMDG)

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE)

Air transport (ICAO-TI / IATA-DGR)

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) :	8
Classification code :	C5
Hazard identification number (Kemler No.) :	80
Tunnel restriction code :	E
Special Provisions :	LQ 5 l · E 1
Hazard label(s) :	 8

Sea transport (IMDG)

Class(es) :	8
EmS-No. :	F-A / S-B
Special Provisions :	LQ 5 l · E 1
Hazard label(s) :	 8

Air transport (ICAO-TI / IATA-DGR)

Class(es) :	8
Special Provisions :	E 1
Hazard label(s) :	 8

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 55, 75

Other regulations (EU)

Labelling for contents according to regulation (EC) No. 648/2004

< 5 % anionic surfactants
< 5 % non-ionic surfactants

National regulations

Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

16.1 Indication of changes

01. Relevant identified uses of the substance or mixture and uses advised against · 02. Other hazards · 07. Conditions for safe storage, including any incompatibilities · 08. Occupational exposure limit values

16.2 Abbreviations and acronyms

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road AOX: Adsorbed Organically Bound Halogens
AwSV: German Regulations on Facilities for the Handling of Substances Hazardous to Water
CAS: Chemical Abstracts Service (Department of American Chemical Society)
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL: Derived No Effect Level
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances
EWC/AVV: European Waste Classification Catalog / Waste List Regulation (german integration) GHS: Globally Harmonized System of Classifiaction and Labelling of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
IMO: International Maritime Organization
Index No.: Identification number in Annex VI of the CLP
PBT: persistent, bioaccumulative and toxic according to REACH
PMT: persistent, mobile and toxic according to REACH
PNEC:Predicted No Effect Concentration
REACH: Regulation (EC) No. 1907/2006
RID: Regulations for the International Transport of Dangerous Goods by Rail (Règlement concernant le transport international ferroviaire de marchandises dangereuses)
STEL: (Short-Term Exposure Limit)
TLV: Threshold Limit Value
TRGS: German Technical Rules for Hazardous Substances ("Technische Regel für den Umgang mit Gefahrstoffen")
TWA: Time-Weighted Average
UFI: Unique Formula Identifier
VOC: volatile organic compound
vPvB: very persistent and very bioaccumulative according to REACH
vPvM: very persistent and very mobile according to REACH
WGK: German Water Hazard Class ("Wassergefährdungsklasse")

16.3 Key literature references and sources for data

AwSV: German Regulations on Facilities for the Handling of Substances Hazardous to Water

DGUV: GESTIS-Stoffdatenbank
Directive 2004/42/EC (on the limitation of emissions of volatile organic compounds resulting from the use of organic solvents in certain paints and varnishes and in vehicle refinishing products)
Directive 2010/75/EU (on emissions from industrial and livestock farming activities)
Directive 92/85/EEC (on maternity protection)
Directive 94/33/EC (on the protection of young people at work)
EC_Safety Data Sheet of Suppliers
ECHA: Classification And Labelling Inventory
ECHA: Registered Substances
GDL: Gefahrstoffdatenbank der Länder
Industrial Safety Regulation – BetrSichV
Major Accidents Ordinance – 12th BImSchV
Regulation (EC) No 1223/2009 (on cosmetic products – Annex III)
Regulation (EC) No 2019/1021 (on persistent organic pollutants)
Regulation (EC) No 2019/1148 (on the marketing and use of explosives precursors)
Regulation (EC) No 528/2012 (on the making available on the market and use of biocidal products)
Regulation (EC) No 648/2004 (on detergents)
Regulation (EC) No 649/2012 (on the export and import of dangerous chemicals)
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council Regulation (EC) No. 1907/2006
|-> REGULATION (EU) 2020/878 of 18 June 2020
Technical Instructions on Air Quality Control – TA Luft
UBA Rigoletto: Wassergefährdende Stoffe

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
Evaluation :
Skin Corr. 1B : Calculation method.
Eye Dam. 1 : Calculation method.

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

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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.