

# Safety Data Sheet

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

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

### 1.1 Product identifier

Master Mould 100

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

#### Relevant identified uses

PC 35 - Washing and cleaning products

### 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 :** labor@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].

# Safety Data Sheet

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

## 2.3 Other hazards

None

## 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 :  $\geq 5 - < 10$  %

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 :  $\geq 1 - < 5$  %

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 :  $\geq 1 - < 5$  %

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 :  $\geq 1 - < 5$  %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER ; REACH No. : 01-0000016977-53-XXXX ; CAS No. : 164462-16-2

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

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

# Safety Data Sheet

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

## 5.1 Extinguishing media

### Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Sand Nitrogen Extinguishing blanket

### 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 (CO<sub>2</sub>) , Sulphur oxides , Silicon dioxide (SiO<sub>2</sub>)

## 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.

### 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 .

#### Hints on joint storage

Storage class (TRGS 510) : 8B

### 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/m<sup>3</sup>

Peak limitation : 1,5(l)

Remark : Y

Version : 23.06.2022

Limit value type (country of origin) : STEL ( EC )

# Safety Data Sheet

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

Limit value : 15 ppm / 101,2 mg/m<sup>3</sup>  
Version : 20.06.2019  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 10 ppm / 67,5 mg/m<sup>3</sup>  
Version : 20.06.2019

## DNEL-/PNEC-values

### DNEL/DMEL

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

Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 6,22 mg/m<sup>3</sup>  
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 worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 67,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 101,2 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 67,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 20 mg/kg

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1

Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 53,6 mg/m<sup>3</sup>

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5

Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 53,6 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 7,6 mg/kg

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1

Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 7,6 mg/kg

ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER ; CAS No. : 164462-16-2

Limit value type : DNEL worker (local)  
Exposure route : Inhalation

# Safety Data Sheet

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

Exposure frequency : Short-term  
Limit value : 40 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 4 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 40 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 40 mg/m<sup>3</sup>

## 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, marine water)  
Limit value : 1 mg/l  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 1000 mg/l

ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER ; CAS No. : 164462-16-2

Limit value type : PNEC (Aquatic, freshwater)  
Exposure route : Water (Including sewage plant)  
Limit value : 2 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Exposure route : Water (Including sewage plant)  
Limit value : 0,2 mg/l  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 24 mg/kg  
Limit value type : PNEC Soil, Freshwater  
Exposure route : Soil  
Limit value : 2,5 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Exposure route : Water (Including sewage plant)  
Limit value : 100 mg/l

## 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.

# Safety Data Sheet

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

**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. 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 (BGR 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

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.

## 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

<b>Freezing point</b> :	( 1013 hPa )	<=	0	°C	
<b>Initial boiling point and boiling range</b> :	( 1013 hPa )	approx.	100	°C	
<b>Flash point</b> :			not applicable		DIN EN ISO 13736
<b>Auto-ignition temperature</b> :			not applicable		
<b>Flammability</b> :			non-flammable		
<b>Lower explosion limit</b> :			none		
<b>Upper explosion limit</b> :			none		
<b>Vapour pressure</b> :	( 20 °C )	<	24	hPa	Calculated
<b>Density</b> :	( 20 °C )	approx.	1,07	g/cm <sup>3</sup>	
<b>Solvent separation test</b> :	( 20 °C )		not applicable		
<b>Water solubility</b> :	( 20 °C )		completely miscible		
<b>pH</b> :	( 20 °C )		13,4		
<b>Cinematic viscosity</b> :	( 20 °C )	<	30	mm <sup>2</sup> /s	
<b>Relative vapour density</b> :	( 20 °C )		not determined		
<b>Maximum VOC content (EC)</b> :			0	Weight-%	
<b>Maximum VOC content (Switzerland)</b>			3,8	Weight-%	

# Safety Data Sheet

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

:  
Taxable VOC content (Switzerland) : 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), -TRINATRIUMSALT IN WATER ; CAS No. : 164462-16-2 )
Exposure route :	Oral
Species :	Rat

# Safety Data Sheet

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

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), -TRINATRIUMSALT IN WATER ; 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), -TRINATRIUMSALT IN WATER ; CAS No. : 164462-16-2 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 5 mg/l

## Corrosion

### Skin corrosion/irritation

Causes severe burns.

### Serious eye damage/eye irritation

Causes serious eye damage.



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

### **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 a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### **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

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

Exposure time : 96 h  
Parameter : LC50 ( ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER ;  
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), -TRINATRIUMSALT IN WATER ;  
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), -TRINATRIUMSALT IN WATER ;  
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), -TRINATRIUMSALT IN WATER ;  
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 )

# Safety Data Sheet

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

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), -TRINATRIUMSALT IN WATER ; 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

### 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

# Safety Data Sheet

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

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), -TRINATRIUMSALT IN WATER ; 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), -TRINATRIUMSALT IN WATER ; 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

No indication of bioaccumulation potential.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

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

## 12.6 Endocrine disrupting properties

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

## 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. 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.

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

**SECTION 14: Transport information**

**14.1 UN 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 I · E 1  
Hazard label(s) :



8

**Sea transport (IMDG)**

Class(es) : 8  
EmS-No. : F-A / S-B  
Special Provisions : LQ 5 I · 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**

# Safety Data Sheet

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

## 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

09. Information on basic physical and chemical properties

### 16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)

AOX: adsorbierbare organisch gebundene Halogene

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)

CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)

EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung

ECHA: Europäische Chemikalienagentur (European Chemicals Agency)

EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)

GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)

IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)

ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)

IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)

RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen

VbF: Verordnung über brennbare Flüssigkeiten

VOC: flüchtige organische Verbindung (volatile organic compound)

VVEA: Verordnung über die Vermeidung und die Entsorgung von Abfällen

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

### 16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank

ECHA: Classification And Labelling Inventory

ECHA: Pre-registered Substances

ECHA: Registered Substances

EC\_Safety Data Sheet of Suppliers

ESIS: European Chemical Substances Information System

GDL: Gefahrstoffdatenbank der Länder

UBA Rigoletto: Wassergefährdende Stoffe

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council

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



Trade name : Master Mould 100  
Revision date : 17.05.2023  
Print date : 17.05.2023

Version (Revision) : 1.0.1 (1.0.0)

---

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

**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.

---