



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

### 1.1 Product identifier

**Trade name/designation** GREEN&CLEAN MB

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

#### Relevant identified uses

##### remark

The product is intended for professional use.

##### Sector of uses [SU]

SU20 Health services.

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

METASYS Medizintechnik GmbH

Florianistrasse 3

Österreich-6063 Rum bei Innsbruck

Telephone: \*43-512-205420

Telefax: \*43-512-205420-7

E-mail: sebastian.geiger@metasys.com

Department responsible for information: ENT

Information telephone: \*43-512-205420

Information telefax: \*43-512-205420-7

E-mail (competent person): sebastian.geiger@metasys.com

www.metasys.com

### 1.4 Emergency telephone number

Giftnotruf München \*49-(0)89-19240

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

#### health hazards

Eye Irrit. 2

##### hazard statements for health hazards

H319 Causes serious eye irritation.

#### Environmental hazards

Aquatic Chronic 2

##### hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

### Classification procedure

Harmonised (legal) classification.

#### remark

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### 2.2 Label elements

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

**Hazard pictograms**

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GHS07

**Signal word**

Warning

**Hazard statements****hazard statements for health hazards**

H319 Causes serious eye irritation.

**Hazard statements for environmental hazards**

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

**Product identifiers**

Alkohol, C10-16, ethoxyliert, propoxyliert

Laurylpyridinium chloride

**2.3 Other hazards**

No data available

**SECTION 3: Composition / information on ingredients****3.1/3.2 Substances/Mixtures****Hazardous ingredients**

subtilisin	<=0,1 %
CAS 9014-01-1	
EC 232-752-2	
INDEX 647-012-00-8	
STOT SE 3, H335 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Resp. Sens. 1, H334	
Didecylmethyloxethylammonium propionate	<=0,2 %
CAS 94667-33-1	
Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	
Natrium citrat	<=1,7 %
CAS 6132-04-3	
EC 200-675-3	
Alkohol, C10-16, ethoxyliert, propoxyliert	<=1 %
CAS 69227-22-1	
Acute Tox. 4, H302 / Eye Dam. 1, H318	



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Laurylpyridinium chloride CAS 104-74-5 EC 203-232-2 Acute Tox. 3, H301 / Acute Tox. 4, H312 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Aquatic Chronic 3, H412	<=0,2 %
Benzyl-C12-16-alkyldimethyl ammonium chlorid CAS 68424-85-1 EC 270-325-2 Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	<=0,1 %

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Take off immediately all contaminated clothing.

#### Following inhalation

In case of irritation of the respiratory tract seek medical advice.

#### Following skin contact

Subsequently wash again with:

Water and soap.

#### After eye contact

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

#### Following ingestion

Rinse mouth immediately and drink large quantities of water.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

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## SECTION 5: Firefighting measures

### Additional information

Move undamaged containers from immediate hazard area if it can be done safely.

### 5.1 Extinguishing media

#### Suitable extinguishing media

Foam. Extinguishing powder. Atomized water.

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

Pyrolysis products, toxic.

Can be released in case of fire:

Nitrogen oxides (NOx). Carbon monoxide. Hydrogen chloride (HCl).

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

#### Personal precautions

See protective measures under point 7 and 8.

### 6.2 Environmental precautions

Do not empty into drains or the aquatic environment.

### 6.3 Methods and material for containment and cleaning up

No data available

### 6.4 Reference to other sections

No data available

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

No data available

### 7.2 Conditions for safe storage, including any incompatibilities

#### Hints on joint storage

#### Storage class

Non-combustible liquids

#### Further information on storage conditions

#### storage temperature

Value 5 - 30 °C

### 7.3 Specific end use(s)

#### Recommendation

Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
9014-01-1	Subtilisins (proteolytic enzymes as 100% pure crystalline enzyme)	0,00004 mg/m <sup>3</sup>		Great Britain (UK)

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)

### 8.2 Exposure controls

#### Personal protection equipment

#### Eye/face protection

#### Suitable eye protection:

Tightly sealed safety glasses.

#### Recommended eye protection articles

**DIN-/EN-Norms**

DIN EN 165

**Skin protection****Suitable material:**

NBR (Nitrile rubber).

**Thickness of the glove material** 0,4 mm**Recommended glove articles****DIN-/EN-Norms**

EN ISO 374

**additional hand protection measures**

Wear cotton undermitten if possible.

**Body protection:****Suitable protective clothing:**

none

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Appearance****Physical state**

liquid:

viscous

**Colour**

blue

**Odour**

characteristic

	parameter	Method - source - remark
	Melting point/freezing point	not determined
	Boiling point or initial boiling point and boiling range	not determined
	flammability	not determined
	Upper explosion limit	not determined
	lower explosion limit	not determined
	Flash point (°C)	not determined
	Auto-ignition temperature	not determined
	Decomposition temperature	not determined
	pH	6,5 neutral
	Kinematic viscosity	not determined
	Water solubility	complete miscible



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	parameter	Method - source - remark
Soluble (g/L) in		not determined
Fat solubility		not determined
Partition coefficient: n-octanol/water		not determined
Vapour pressure		not determined
Density and/or relative density	1 g/cm <sup>3</sup> Temperature 20 °C	
Relative vapour density		not determined
particle characteristics		not determined
Dynamic viscosity	500 mPa*s	
flow time		not determined

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## 9.2 Other information

### Solvent content

Value 0,07 %

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 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

#### Materials to avoid

not relevant

### 10.6 Hazardous decomposition products

In case of freezing:

Danger of bursting container.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Acute oral toxicity >5000 mg/kg

#### Effective dose

ATEmix calculated:

#### Species:

Rat.

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## 11.2 Information on other hazards

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

**Acute (short-term) toxicity to crustacea** ca.8,4 mg/L

##### Effective dose

LC50:

**Test duration** 48 h

##### species

Daphnia magna (Big water flea)

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 12.6 Endocrine disrupting properties

No information available.

### 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 code product** 070699

**hazardous waste** No

##### Waste name

wastes not otherwise specified

##### After intended use

**Waste code packaging** 150102

**hazardous waste** No

##### Waste name

plastic packaging

## SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable

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	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

**Additional information****All transport carriers**

Not a hazardous material with respect to transportation regulations.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation****Other regulations (EU)****Regulation 96/82/EC for danger control following severe accidents with dangerous substances:**

Not subject to regulation 96/82/EC.

**15.2 Chemical Safety Assessment**

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

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**SECTION 16: Other information****Indication of changes**

2022/06: Änderungen 3

**Key literature references and sources for data**

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.