

## **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**

##### **Sector of uses [SU]**

SU20 Health services.

##### **Product categories [PC]**

disinfectants

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

#### **Supplier (manufacturer/importer/only representative/downstream user/distributor)**

METASYS Medizintechnik GmbH

Florianistrasse 3

Österreich-6063 Rum bei Innsbruck

P.O. Box:

Telephone: \*43-512-205420

Telefax: \*43-512-205420-7

E-mail: [sebastian.geiger@metasys.com](mailto:sebastian.geiger@metasys.com)

Dept. responsible for information: DES/ ENT

Information telephone: \*43-512-205420

Information telefax: \*43-512-205420-1130

Emergency telephone number: Giftnotruf München \*49-(0)89-19240

[www.metasys.com](http://www.metasys.com)

### **1.4 Emergency telephone number**

#### **Emergency telephone number**

Giftnotruf München \*49-(0)89-19240

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## **SECTION 2: Hazards identification**

### **Hazards description**

#### **Hazard designation:**

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS]. The preparation is dangerous in the sense of Directive 1999/45/EC.

### **2.1 Classification of the substance or mixture**

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

##### **Health hazards:**

###### **health hazards**

Acute Tox. 4

###### **hazard statements for health hazards**

H302 Harmful if swallowed.

###### **health hazards**

Eye Irrit. 2

###### **hazard statements for health hazards**

H319 Causes serious eye irritation.

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## 2.2 Label elements

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

#### Hazard pictograms



GHS07

#### Signal word

Warning

#### Hazard Statements:

##### Hazard statements for health hazards:

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

#### Precautionary Statements:

##### General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

##### Response:

P301+ P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

#### Product identifiers

Laurylpyridinium chloride

Alkohol, C10-16, ethoxyliert, propoxyliert

#### Special rules for supplemental label elements for certain mixtures

EUH208 Contains May produce an allergic reaction.

## 2.3 Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.1/3.2 Mixture related information

#### Hazardous ingredients

Subtilisin	0,1 %
CAS 9014-01-1	
EC 232-752-2	
INDEX 647-012-00-8	
Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Resp. Sens. 1, H334 / STOT SE 3, H335	
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	

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Alkohol, C10-16, ethoxyliert, propoxyliert CAS 69227-22-1 Acute Tox. 4, H302 / Eye Dam. 1, H318	1 %
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	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.

#### **After 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 (NO<sub>x</sub>). Carbon monoxide. Hydrogen chloride (HCl).

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**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

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**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**

Keine Lagerklasse.

**Further information on storage conditions**

storage temperature: 5 - 50 °C

**7.3 Specific end use(s)****Recommendation**

Observe instructions for use.

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**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

**8.2 Exposure controls****Personal protection equipment****Eye/face protection****Suitable eye protection:**

Tightly sealed safety glasses.

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

NBR (Nitrile rubber).

**Breakthrough time (maximum wearing time)** >480 min

**Thickness of the glove material** 0,4 mm

**additional hand protection measures**

Wear cotton undermitten if possible.

**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
pH	6,5	neutral
Melting point/freezing point		No data available
Initial boiling point and boiling range		No data available
Flash point (°C)		No data available
Evaporation rate		No data available
Flammable solids		No data available
Flammable aerosols		No data available
Upper explosion limit (Vol-%)		No data available
Lower explosion limit (Vol-%)		No data available
Vapour pressure		No data available
Density	1 g/cm <sup>3</sup> at °C: 20 °C	
Vapour density		No data available
Fat solubility (g/L)		No data available
Water solubility (g/L)		complete miscible
Soluble (g/L) in		No data available
Partition coefficient: n-octanol/water		No data available

parameter	Method - source - remark
Auto-ignition temperature	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Explosives	No data available
Oxidising gases	No data available
Oxidising liquids	No data available
Oxidising solids	No data available
Dynamic viscosity 500 mPa*s	
flow time	No data available
Kinematic viscosity	No data available

## 9.2 Other safety information

**Solvent content (%)** 0,07 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

In case of freezing:

Danger of bursting container.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Acute oral toxicity

**Acute toxicity, oral** >5000 mg/kg

#### Effective dose

ATEmix calculated:

#### Species:

Rat.

**SECTION 12: Ecological information**
**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data 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 Other adverse effects**

No data available

**SECTION 13: Disposal considerations**
**13.1 Waste treatment methods**
**Appropriate disposal / Product**
**Appropriate disposal/Product:**

Waste disposal according to official state regulations.

**Appropriate disposal / Package**
**Contaminated packaging:**

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

**Waste code product** 070699

**Special monitoring requiring wastes:** No

**Waste name**

wastes not otherwise specified

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	not applicable	not applicable	not applicable
14.2 Proper Shipping Name			
14.3 Class(es)			
14.4 Packing group			
14.5 ENVIRONMENTALLY HAZARDOUS			
14.6 Special precautions for user			
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			

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**Additional information**

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)**

**Directive 96/82/EC for danger control following severe accidents with dangerous substances:**

**Regulation 96/82/EC for danger control following severe accidents with dangerous substances:**

Not subject to regulation 96/82/EC.

**National regulations**

**Germany**

**Störfallverordnung**

**remark**

Unterliegt nicht der StörfallV.

**Technische Anleitung Luft (TA-Luft)**

**weight fraction in %** 0,07 % by weight

**Number**

5.2.5.

**Water hazard class (WGK)**

schwach wassergefährdend (WGK 1)

**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**

Sebastian Geiger: Auf Stand EWG1272/2008

R&S Sätze entfernt.

**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.