



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

### 1.1 Product identifier

**Trade name/designation** GREEN&CLEAN CL N

### 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

### 1.4 Emergency telephone number

Giftnotruf München \*49-(0)89-19240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

#### health hazards

Skin Irrit. 2

#### hazard statements for health hazards

H315 Causes skin irritation.

#### health hazards

Eye Dam. 1

#### hazard statements for health hazards

H318 Causes serious eye damage.

#### health hazards

Resp. Sens. 1

#### hazard statements for health hazards

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 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



GHS05



GHS07



GHS08

### Signal word

Warning

### Hazard statements

#### hazard statements for health hazards

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H315 Causes skin irritation.

### Precautionary statements

#### General:

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

P102 Keep out of reach of children.

#### Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342 + P311 Bei Symptomen der Atemwege: GIFTINFORMATIONSZENTRUM oder Arzt anrufen.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/.

#### Disposal:

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

### Product identifiers

Alkylethercarbonic acid

Protease

Lipase

## 2.3 Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.1/3.2 Substances/Mixtures

#### Hazardous ingredients

Alkylethercarbonic acid

<=10 %

CAS 53563-70-5

Acute Tox. 4, H302 / Eye Dam. 1, H318



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Protease <=1 %

CAS 9014-01-1

EC 232-752-2

INDEX 647-012-00-8

Acute Tox. 4, H302 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 /

Resp. Sens. 1, H334 / STOT SE 3, H335 / Aquatic Acute 1, H400

Sodium citrate <=3 %

CAS 6132-04-3

EC 200-675-3

Lipase 0,1 %

CAS 9001-62-1

EC 232-619-9

Resp. Sens. 1, H334

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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 breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Provide fresh air. In case of inhaling spray mists, consult a doctor immediately and show him box or label.

#### Following skin contact

In case of skin irritation, seek medical treatment. After contact with skin, wash immediately with plenty of water and soap.

#### After eye contact

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### Following ingestion

Rinse mouth immediately and drink large quantities of water. Do not induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

### 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).



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Carbon monoxide.

### **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**

Wear personal protection equipment. Wear respiratory protection when in the presence of vapour, dust, and aerosols.

### **6.2 Environmental precautions**

Do not allow to enter into soil/subsoil. No special environmental measures are necessary.

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

#### **For containment**

##### **Suitable material for taking up:**

Universal binder

#### **For cleaning up**

##### **Suitable material for diluting or neutralizing:**

Water

### **6.4 Reference to other sections**

No data available

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Protective measures**

##### **Measures to prevent aerosol and dust generation**

During filling, metering, mixing and sampling must be used:

Closed devices. Use closed proportioning device.

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

#### **Hints on joint storage**

##### **Storage class**

Non-combustible corrosive substances

##### **Further information on storage conditions**

##### **storage temperature**

Value 5 - 30 °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

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:

lab coat

##### 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

#### Colour

blue

#### Odour

characteristic

fruity



parameter		Method - source - remark
Evaporation rate		not determined
Melting point/freezing point	0 °C	
Boiling point or initial boiling point and boiling range	100 °C	
flammability		not determined
Upper explosion limit		not determined
lower explosion limit		not determined
Flash point (°C)	>63 °C	Flash point (°C):
Auto-ignition temperature		not determined
Decomposition temperature		not determined
pH	6 - 7	
Soluble (g/L) in		not determined
Fat solubility		not determined
Water solubility		complete miscible
Partition coefficient: n-octanol/water		not determined
Vapour pressure		not determined
Vapour density		not determined
Relative density	1,02 g/cm <sup>3</sup>	Temperature 20 °C
particle characteristics		not determined
Dynamic viscosity	3 mPa*s	Temperature 25 °C
flow time		Newton.
Kinematic viscosity		not determined

## 9.2 Other information

No data 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 stable under storage at normal ambient temperatures.

### 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.



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## 10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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

##### Effective dose

ATEmix calculated:

##### Species:

Rat

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

**Acute (short-term) toxicity to crustacea** >100 mg/L

##### Effective dose

LC50:

##### species

Daphnia magna (Big water flea)

##### remark

calculated

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

#### Assessment/classification

Does not accumulate in organisms.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

No information available.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### remark

Remove according to the regulations.

#### Directive 2008/98/EC (Waste Framework Directive)

#### Before intended use

**Waste code product** 070699

**hazardous waste** No

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**Waste name**

wastes not otherwise specified

**After intended use**

**Appropriate disposal / Product**

Waste disposal according to official state regulations.

**Waste code packaging** 070699

**hazardous waste** 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.	1760	1760	1760
14.2 Proper Shipping Name	CORROSIVE LIQUID, N.O.S. (ALKYLETHERCARBONIC ACID)	CORROSIVE LIQUID, N.O.S. (ALKYLETHERCARBONIC ACID)	Corrosive liquid, n.o.s. (ALKYLETHERCARBONIC ACID)
14.3 Class(es)	8	8	8
14.4 Packing group	III	III	III
14.5 ENVIRONMENTALLY HAZARDOUS	No	No	No
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 - Land transport (ADR/RID)

<b>Hazard label(s)</b>	8
<b>Classification code</b>	C9
<b>Limited quantity (LQ)</b>	5 L
<b>Hazard identification number (Kemler No.)</b>	80
<b>tunnel restriction code</b>	E
<b>transport category</b>	3

### Additional information - Air transport (ICAO-TI / IATA-DGR)

<b>Limited quantity (LQ)</b>	1
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## SECTION 15: Regulatory information

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

**15.2 Chemical Safety Assessment**

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





## **SECTION 16: Other information**

### **Indication of changes**

2021/11: Änderungen Abschnitt 1, 3, 7, 13

### **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.