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

The product is intended for professional use.

**1.1 Product identifier****Product category**

**Chemical products (excludes biocidal products)**

PC-MED Medical devices

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

**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****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**

Acute Tox. 4

**hazard statements for health hazards**

H302 Harmful if swallowed.

**health hazards**

Acute Tox. 4

**hazard statements for health hazards**

H312 Harmful in contact with skin.

**health hazards**

Acute Tox. 4



## hazard statements for health hazards

H332 Harmful if inhaled.

## health hazards

Skin Corr. 1B

## hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

## health hazards

STOT RE 2

## hazard statements for health hazards

H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

## Environmental hazards

Aquatic Acute 1

## hazard statements for environmental hazards

H400 Very toxic to aquatic life.

## Environmental hazards

Aquatic Chronic 1

## hazard statements for environmental hazards

H410 Very toxic to aquatic life with long lasting effects.

## 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 components for labelling

2-Amino-ethanol

N,N-Didecyl-N-methyl-poly(oxethyl)ammoniumpropionat

N-(-3-Aminopropyl)-N-docecylpropan-1,3,-diamin

#### Hazard pictograms



GHS05



GHS08



GHS09

#### Signal word

Danger

#### Hazard statements

##### hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

##### Hazard statements for environmental hazards

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

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**Precautionary statements****General:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

**Prevention**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

**Response:**

P301+ P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.  
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/.  
P391 Collect spillage.

**Storage:**

P405 Store locked up.

**Disposal:**

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

**Product identifiers**

2-Aminoethanol  
N,N-Didecyl-N-methyl-poly(oxethyl)ammoniumpropionat  
N-(-3-Aminopropyl)-N-docecylpropan-1,3,-diamin

**2.3 Other hazards**

No data available

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

ethanediol	<5 %
CAS 107-21-1	
EC 203-473-3	
INDEX 603-027-00-1	
Acute Tox. 4, H302	
2-aminoethanol	<=5 %
CAS 141-43-5	
EC 205-483-3	
INDEX 603-030-00-8	
Acute Tox. 4, H332 / Acute Tox. 4, H312 / Acute Tox. 4, H302 /	
Skin Corr. 1B, H314	
N,N-Didecyl-N-methyl-poly(oxethyl)ammoniumpropionat	<=18 %
CAS 94667-33-1	
Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Aquatic Acute 1, H400	
/ Aquatic Chronic 1, H410	

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N-(-3-Aminopropyl)-N-docecylpropan-1,3,-diamin <=14 %  
CAS 2372-82-9  
EC 219-145-8  
Acute Tox. 3, H301 / Skin Corr. 1B, H314 / STOT RE 2, H373 /  
Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

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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

Provide fresh air. In case of inhaling spray mists, consult a doctor immediately and show him box or label. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label. If breathing is irregular or stopped, administer artificial respiration.

#### 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.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

### 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

#### Notes for the doctor

Where appropriate artificial ventilation. First Aid, decontamination, treatment of symptoms.

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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.

### 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.

**Protective equipment**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**For emergency responders****Personal protection equipment**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.2 Environmental precautions**

Do not empty into drains or the aquatic environment.

**6.3 Methods and material for containment and cleaning up****For containment****Suitable material for taking up:**

Sand

Kieselguhr

Universal binder

Peat

Earth

Sawdust

**For cleaning up****Suitable material for diluting or neutralizing:**

Water

**6.4 Reference to other sections**

Disposal: see section 13

Personal protection equipment: see section 8

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Immediately remove any contaminated clothing, shoes or stockings.

**7.2 Conditions for safe storage, including any incompatibilities****Hints on joint storage****Storage class**

Brennbare ätzende Stoffe (flüssig).

**Further information on storage conditions****storage temperature**

Value 5 - 30 °C

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## 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
141-43-5	2-Aminoethanol	2,5 mg/m <sup>3</sup> 1 ppm	7,6 (1) mg/m <sup>3</sup> 3 (1) ppm	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~
141-43-5	2-Aminoethanol	2,5 mg/m <sup>3</sup> 1 ppm	7,6 mg/m <sup>3</sup> 3 ppm	European Union
107-21-1	Ethane-1,2-diol, vapour	52 mg/m <sup>3</sup> 20 ppm	104 (1) mg/m <sup>3</sup> 40 (1) ppm	Great Britain (UK) (1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~
107-21-1	Ethane-1,2-diol, particulate	10 mg/m <sup>3</sup>		European Union
107-21-1	Ethane-1,2-diol, vapour	52 mg/m <sup>3</sup> 20 ppm	104 mg/m <sup>3</sup> 40 ppm	Great Britain (UK)
				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

##### Eyeface protection

##### Suitable eye protection:

goggles

##### Skin protection

##### Suitable material:

NBR (Nitrile rubber).

**Breakthrough time:** >480 min

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

##### additional hand protection measures

Wear cotton undermitten if possible.

##### remark

Tested protective gloves must be worn



## Body protection:

## Suitable protective clothing:

lab coat

Apron

## Respiratory protection

### remark

Usually no personal respirative protection necessary.

## 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)	>63 °C	Flash point (°C):
Auto-ignition temperature		not determined
Decomposition temperature		not determined
pH	11	
Kinematic viscosity		not determined
Water solubility		complete miscible
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	1,01 g/cm <sup>3</sup>	Temperature 20 °C
Relative vapour density		not determined
particle characteristics		not determined



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	parameter	Method - source - remark
Dynamic viscosity	80 mPa*s	Temperature 25 °C
flow time		Newton.
		not determined

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## 9.2 Other information

### Solvent content

Value 7,85 %

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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

Acid.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

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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 >1000 mg/kg

#### Effective dose

ATEmix calculated:

#### Species:

Rat.

### 11.2 Information on other hazards

No information available.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

Acute (short-term) toxicity to crustacea 0,22 mg/L

#### Effective dose

EC50

#### species

Daphnia magna (Big water flea)

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## 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

No information available.

## 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

#### remark

Remove according to the regulations.

### 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	1903	1903	1903
14.2 Proper Shipping Name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. ((N,N-BIS-(3-AMINOPROPYL) DODECYLAMINE)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. ((N,N-BIS-(3-AMINOPROPYL) DODECYLAMINE)	Disinfectant, liquid, corrosive, n.o.s. ((N,N-BIS-(3-AMINOPROPYL) DODECYLAMINE)
14.3 Class(es)	8	8	8
14.4 Packing group	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.
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)**

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

**Additional information - Sea transport (IMDG)**

Marine pollutant	Yes.
Segregation group remark	Storage Cat A; Segregation - EmS F-A; S-B

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

Limited quantity (LQ)	1
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**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 of occupation**

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

**Other regulations (EU)****Regulation 96/82/EC for danger control following severe accidents with dangerous substances:**

96/82/EG, annex I, part 2: Observe quantity limits according to R-phrases.

**15.2 Chemical Safety Assessment**

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

**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.