

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

### 1.1 Product identifier

Trade name/designation GREEN&CLEAN AD

### 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

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: \*43-512-205420-7

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

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

### 1.4 Emergency telephone number

Giftnotruf München \*49-(0)89-19240

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## SECTION 2: Hazards identification

### Hazards description

#### Hazard designation:

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

### 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 Irrit. 2

##### hazard statements for health hazards

H319 Causes serious eye irritation.

##### Environmental hazards

Aquatic Chronic 3

##### hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

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## 2.2 Label elements

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

Hazard pictograms



GHS07

**Signal word**

Danger

**Hazard statements**

**hazard statements for health hazards**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H303 May be harmful if swallowed.

**Hazard statements for environmental hazards:**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**General:**

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

P102 Keep out of reach of children.

**Prevention:**

P264 Wash thoroughly after handling.

**Response:**

P301+ P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container to .

**Product identifiers**

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

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

**2.3 Other hazards**

No data available

## SECTION 3: Composition / information on ingredients

**3.1/3.2 Substances/Mixtures**

**Hazardous ingredients**

2-aminoethanol <0,5 %

CAS 141-43-5

EC 205-483-3

INDEX 603-030-00-8

Acute Tox. 4, H302 / Acute Tox. 4, H312 / Acute Tox. 4, H332 / Skin

Corr. 1B, H314

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N-(-3-Aminopropyl)-N-docecylopropan-1,3,-diamin CAS 2372-82-9 EC 219-145-8 Acute Tox. 3, H301 / Skin Corr. 1A, H314 / STOT RE 2, H373 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	1 %
N,N-Didecyl-N-methyl-poly(oxethyl)ammoniumpropionat CAS 94667-33-1 Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	1,3 %

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**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

**Following inhalation**

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

**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**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink large quantities of water.

**Self-protection of the first aider**

First aid assistant: 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**

No data available

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**SECTION 5: Firefighting measures****Additional information**

The product itself is not combustible. Extinguishing materials should be selected according to the surrounding area.

**5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Foam. Water. Atomized water.

**5.2 Special hazards arising from the substance or mixture****Hazardous combustion products**

Hydrogen chloride (HCl). Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

**5.3 Advice for firefighters****Special protective equipment for firefighters:**

Use appropriate respiratory protection.

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**SECTION 6: Accidental release measures****Methods for cleaning up**

Treat the assimilated material according to the section on waste disposal.

**Additional information**

Eliminate leaks immediately.

**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel****Personal precautions**

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

**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****Protective measures****Specific requirements or handling rules**

To clean the floor and all object contaminated by this material, use:  
Water.

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

Keine Lagerklasse.

**Further information on storage conditions**

Keep container tightly closed in a cool, well-ventilated place.

**storage temperature** 5 - 35 °C

**7.3 Specific end use(s)**

No data available

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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
141-43-5	2-Aminoethanol	2,5 mg/m <sup>3</sup> 1 ppm	7,6 mg/m <sup>3</sup> 3 ppm	Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] ~ European Union

CAS No.	Substance name	LTV	STV	remark
141-43-5	2-Aminoethanol	2,5 mg/m <sup>3</sup> 1 ppm	7,6 mg/m <sup>3</sup> 3 ppm	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

#### Remarks:

Skin protection: not required.

#### General protection and hygiene measures:

Do not eat, drink, smoke or sneeze at the workplace. Avoid contact with skin, eye and clothing. Wash contaminated clothing prior to re-use.

#### Eye/face protection

##### Suitable eye protection:

Tightly sealed safety glasses.

#### Skin protection

##### Hand protection:

##### Hand protection

Tested protective gloves are to be worn:

##### Respiratory protection

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

#### Environmental exposure controls

#### Substance/mixture related measures to prevent exposure during identified uses

Further information: refer to Technical Data Sheet.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

#### Physical state

liquid

#### Colour

blue

#### Odour

characteristic

	parameter	Method - source - remark
pH	10,6	Temperature 20 °C alkaline
Melting point/freezing point		not determined
Initial boiling point and boiling range	100 °C	
Flash point (°C)		not determined
Evaporation rate		not determined

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	parameter	Method - source - remark
flammability		not determined
Upper explosion limit		not determined
lower explosion limit		not determined
Vapour pressure		not determined
Vapour density		not determined
Density	1 g/cm <sup>3</sup>	Temperature 20 °C
Fat solubility (g/L)		not determined
Water solubility (g/L)		complete miscible
Soluble (g/L) in		not determined
Partition coefficient: n-octanol/water		not determined
Auto-ignition temperature		not determined
Decomposition temperature		not determined
Dynamic viscosity	1 mPa*s	
flow time		not determined
Kinematic viscosity		not determined

**9.2 Other safety information**

No data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No information available.

**10.2 Chemical stability**

No information available.

**10.3 Possibility of hazardous reactions**

No information available.

**10.4 Conditions to avoid**

No information available.

**10.5 Incompatible materials****Materials to avoid**

Reacts with :

Acid.

**10.6 Hazardous decomposition products**

No information available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Acute oral toxicity** >2000 mg/kg

**Effective dose**

ATEmix calculated:

**Species:**

Rat.

**Exposure time:** 48 h

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## SECTION 12: Ecological information

### Type judging:

Harmful to aquatic organisms.

### 12.1 Toxicity

#### Aquatic toxicity

**Acute Daphnia toxicity** =2,94 mg/L

**Effective dose:**

EC50:

**species:**

Daphnia magna

**Evaluation:**

Harmful for Water fleas.

### 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 Other adverse effects

No information available.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Appropriate disposal / Product

Waste disposal according to official state regulations.

#### Appropriate disposal / Package

Cleaned containers may be recycled.

**Waste code product** 070699

**hazardous waste** No

**Waste name**

wastes not otherwise specified

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**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			

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

Not a hazardous material with respect to transportation regulations.

**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.

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

**Volatile organic compounds (VOC) in percentage by weight:** 0,59 Wt %

**National regulations****15.2 Chemical Safety Assessment**

No data available

**SECTION 16: Other information****Recommended restrictions of use:****Remark:**

Do not use in household. Do not use for injecting or spraying.

**Indication of changes**

2017 Sept: check of data by Sebastian Geiger

**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.