

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

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1.4 Emergency telephone numberGiftnotruf 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 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.

2.2 Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]****Hazard pictograms**



GHS07

GHS09

Signal word

Warning

Hazard statements**hazard statements for health hazards**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Hazard statements for environmental hazards

H411 Toxic 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 hands thoroughly after handling.

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

P273 Avoid release to the environment.

P262 Do not get in eyes, on skin, or on clothing.

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

Disposal:

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

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, H332 / Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314	
N-(3-Aminopropyl)-N-dodecylpropan-1,3,-diamin	<=1 %
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	



N,N-Didecyl-N-methyl-poly(oxethyl)ammoniumpropionat <=1 - 1,5 %
CAS 94667-33-1
EC 619-057-3
Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Aquatic Acute 1, H400
/ Aquatic Chronic 1, H410

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.

Following 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

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 (CO₂). Foam. Water. Atomized water.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x)

Carbon monoxide

Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters

Use appropriate respiratory protection.

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.

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:**

Absorbing material, organic
Universal binder

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

Water

6.4 Reference to other sections

No data available

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**

Non-combustible liquids

Further information on storage conditions

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

storage temperature

Value 5 - 30 °C

7.3 Specific end use(s)

No data available

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 ³ 1 ppm	7,6 (1) mg/m ³ 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 ³ 1 ppm	7,6 mg/m ³ 3 ppm	European Union 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****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:**

Eye glasses with side protection

Recommended eye protection articles**DIN-/EN-Norms**

DIN EN 166

Skin protection**Suitable gloves type**

Disposable gloves

Suitable material:

NBR (Nitrile rubber)

Required properties:

liquid-tight

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

Colour

blue

Odour

characteristic

	parameter	Method - source - remark
Evaporation rate		not determined
Melting point/freezing point		not determined
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)		not determined
Auto-ignition temperature		not determined
Decomposition temperature		not determined
pH	10,6	Temperature 20 °C
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 g/cm ³	Temperature 20 °C
particle characteristics		not determined
Dynamic viscosity	1 mPa*s	
flow time		not determined
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

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

Further information on storage conditions: see subsection 7.2.

10.5 Incompatible materials

Materials to avoid

Reacts with :

Acid.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

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

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.

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 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.	not applicable	not applicable	not applicable
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 ENVIRONMENTALLY HAZARDOUS	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.



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

No data available

SECTION 16: Other information

Indication of changes

2021/09: Änderungen 2, 3, 8, 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.