

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

1.1 Product identifier

Trade name/designation GREEN&CLEAN RD 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

Dept. responsible for information: DES/ ENT

Information telephone: *43-512-205420

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

www.metasys.com

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

Acute Tox. 4

hazard statements for health hazards

H302 Harmful if swallowed.

Classification procedure

Harmonised (legal) classification.

health hazards

Skin Corr. 1A

hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

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



GHS05



GHS09



GHS07

Signal word

Danger

Hazard statements

hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

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:

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.

Response:

P301+ P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P310 Immediately call a POISON CENTER/doctor/.

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 .

Product identifiers

Didecyldimethylammoniumchlorid

Undeceth-8

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

Guanidin, N,N"-1,3-Propandiylobis-, N-cocos-alkylderivate

2.3 Other hazards

No data available

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

propan-2-ol	2,9 %
CAS 67-63-0	
EC 200-661-7	
INDEX 603-117-00-0	
Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336	
Didecyldimethylammoniumchlorid	12 %
CAS 7173-51-5	
EC 230-525-2	
INDEX 612-131-00-6	
Acute Tox. 4, H302 / Skin Corr. 1B, H314	
N-(-3-Aminopropyl)-N-docecylpropan-1,3,-diamin	6 %
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	
Guanidin, N,N"-1,3-Propandiylobis-, N-cocos-alkylderivate	6 %
CAS 98246-84-5	
EC 308-757-1	
Flam. Liq. 3, H226 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Aquatic Acute 1, H400	
Undeceth 8	5 %
CAS 127036-24-2	
Acute Tox. 4, H302 / Eye Dam. 1, H318	

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.

After 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

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_x). Carbon monoxide. Hydrogen chloride (HCl).

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

Methods for cleaning up

Suitable absorbing material:

Absorbing material, organic.

sand

Universal binding agent. sawdust. diatomaceous earth. Remove mechanically, placing in appropriate containers for disposal. Collect in closed containers for disposal.

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 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

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

Combustible corrosive substances (liquid)

Further information on storage conditions**storage temperature**

Value 0 - 35 °C

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
67-63-0	Propan-2-ol	999 mg/m ³ 400 ppm	1250 mg/m ³ 500 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****General protection and hygiene measures:**

Avoid contact with skin, eye and clothing. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use.

Eye/face protection**Suitable eye protection:**

Tightly sealed safety glasses.

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

green

Odour

characteristic

	parameter	Method - source - remark
pH	10,4	
Melting point/freezing point		not determined
Initial boiling point and boiling range		not determined
Flash point (°C)		not determined
Evaporation rate		not determined
flammability		not determined
Upper explosion limit		not determined
lower explosion limit		not determined
Vapour pressure		not determined
Vapour density		not determined
Relative density	0,98 g/cm ³ 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

9.2 Other information

Solvent content (%)

Value 2,9 %

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

Acid.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity >1000 mg/kg

Effective dose

ATEmix calculated:

Species:

Rat.

Exposure time: 48 h

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute Daphnia toxicity 0,39 mg/L

Effective dose:

EC50:

Exposure time: 48 h

species:

Daphnia magna

Evaluation:

Toxic 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

Appropriate disposal / Product

Waste disposal according to official state regulations.

Waste code product 070699

hazardous waste No

Waste name

wastes not otherwise specified

remark

Remove according to the regulations.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	1903	1903	1903
14.2 Proper Shipping Name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (DIDECYDIMETHYLAMMONIUMCHLORIDE, (N,N-BIS-(3-AMINOPROPYL) DODECYLAMINE)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (DIDECYDIMETHYLAMMONIUMCHLORIDE, (N,N-BIS-(3-AMINOPROPYL) DODECYLAMINE)	Disinfectant, liquid, corrosive, n.o.s. (DIDECYDIMETHYLAMMONIUMCHLORIDE, (N,N-BIS-(3-AMINOPROPYL) DODECYLAMINE)
14.3 Class(es)	8	8	8
14.4 Packing group	III	III	III
14.5 ENVIRONMENTALLY HAZARDOUS	Yes.	Yes.	Yes.
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	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 - 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
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.

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

Volatile organic compounds (VOC) in percentage by weight: 2,9 Wt %

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Indication of changes

2018_12: 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.