

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

1.1 Product identifier

Trade name/designation GREEN&CLEAN M2 GRÜN | GREEN | VERT | VERDE

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Sector of uses [SU]

Health services.

Product categories [PC]

disinfectants

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

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

Dept. responsible for information: DES/ ENT

Information telephone: *43-512-205420

Information telefax: *43-512-205420-1130

Emergency telephone number: Giftnotruf München *49-(0)89-19240

www.metasys.com

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Gritter Dental Australia

29, 55-59 Norman Street

AUSTRALIA-Peakhurst NSW 2210

P.O. Box:

Telephone: (+61) 02 9153 6700

Telefax: (+61) 02 9153 6677

E-mail: leongritter@optusnet.com.au

www.gritterdental.com.au

1.4 Emergency telephone number

No data available

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 Directive 67/548/EEC or 1999/45/EC

Categories of danger

C; R34

R42

Xn; R22

N; R50

R-phrases

R34 Causes burns.

R42 May cause sensitization by inhalation.

R22 Harmful if swallowed.

R50 Very toxic to aquatic organisms.

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

Environmental hazards:

Environmental hazards

Aquatic Acute 1

hazard statements for environmental hazards

H400 Very toxic to aquatic life.

Health hazards:

health hazards

Acute Tox. 4

hazard statements for health hazards

H302 Harmful if swallowed.

health hazards

Skin Corr. 1C

hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

health hazards

Resp. Sens. 1

hazard statements for health hazards

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

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Hazard components for labelling

Subtilisin

Dioctyldimethylammoniumchlorid

Benzalkoniumchlorid

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

Hazard symbols and hazard statements of dangerous substances and preparations

C Corrosive.

N Dangerous for the environment.

R-phrases

R22 Harmful if swallowed.

R34 Causes burns.

R42 May cause sensitization by inhalation.

R50 Very toxic to aquatic organisms.

S-phrases

S1/2 Keep locked up and out of the reach of children.

S13 Keep away from food, drink and animal feedingstuffs.

S23 Do not breathe gas/fumes/vapour/spray.

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of .

S29 Do not empty into drains.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show this label if possible).

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

S64 If swallowed, rinse mouth with water (only if the person is conscious).

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

Hazard pictograms



GHS05



GHS07



GHS08



GHS09

Signal word

Danger

Hazard Statements:

Hazard statements for health hazards:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

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

Hazard statements for environmental hazards:

H400 Very toxic to aquatic life.

Precautionary Statements:

General:

P102 Keep out of reach of children.

Prevention:

P273 Avoid release to the environment.

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

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Storage:

P405 Store locked up.

Product identifiers

Subtilisin

Diocetyltrimethylammoniumchlorid

Benzalkoniumchlorid

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

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients**3.1/3.2 Preparation related information****Hazardous ingredients:**

Subtilisin	1 %
CAS 9014-01-1	
EC 232-752-2	
INDEX 647-012-00-8	
Xi R37/38-41; R42	
Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Resp. Sens. 1, H334 / STOT SE 3, H335	
edetic acid; (EDTA)	<5 %
CAS 60-00-4	
EC 200-449-4	
INDEX 607-429-00-8	
Xi R36	
Eye Irrit. 2, H319	
Benzalkoniumchlorid	<6,5 %
CAS 61789-71-7	
EC 269-919-4	
C; R34;Xn; R22;N; R50	
Acute Tox. 4, H302, R20 / Skin Corr. 1C, H314 / Aquatic Acute 1, H400	
Dioctyldimethylammoniumchlorid	25 %
CAS 5538-94-3	
EC 226-901-0	
C; R34;Xn; R22;N; R50	
Acute Tox. 4, H302, R20 / Skin Corr. 1C, H314 / Aquatic Acute 1, H400	
N-(3-Aminopropyl)-N-docecylpropan-1,3,-diamin	4 %
CAS 2372-82-9	
EC 219-145-8	
C; R35;Xn; R22;Xn; R48/22;N; R50	
Acute Tox. 3, H301, R25 / Skin Corr. 1A, H314 / STOT RE 2, H373 / Aquatic Acute 1, H400	

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

Take off immediately all contaminated clothing.

After 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.

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

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

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 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****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

Brennbare ätzende Stoffe (flüssig).

Further information on storage conditions

storage temperature: 0 - 30 °C

7.3 Specific end use(s)

Recommendation

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection:

Tightly sealed safety glasses.

Skin protection

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

parameter	Method - source - remark
pH value 11	
Melting point / melting range	No data available
Boiling temperature / boiling range	No data available
Flash point (°C) >63 °C	Flash point (°C):
Vapourisation rate / Evaporation rate	No data available
Flammable solids	No data available
Flammable aerosols	No data available
Upper explosion limit (Vol-%)	No data available
Lower explosion limit (Vol-%)	No data available
Vapour pressure	No data available
Density 1,01 g/cm ³ at °C: 20 °C	
Relative vapour density at 20 °C (air=1)	No data available
Fat solubility (g/L)	No data available
Soluble (g/L) in	No data available
Partition coefficient n-octanol/water (log P O/W)	No data available
Self ignition temperature (SIT)	No data available
Self ignition temperature (SIT)	No data available
Exothermic decomposition	No data available
Explosives	No data available
Oxidising gases	No data available
Oxidising liquids	No data available
Oxidising solids	No data available

9.2 Other safety information

Solvent content (%) 2,9 %

Water solubility (g/L)

remark

complete miscible

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Materials to avoid

Acid.

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Acute toxicity, oral 884 mg/kg

Effective dose

ATEmix calculated:

Species:

Rat.

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT assessment

No data available

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Appropriate disposal/Product:

Waste disposal according to official state regulations.

Appropriate disposal / Package

Contaminated packaging:

Cleaned containers may be recycled.

Waste code product 070699

Waste name

Abfälle a. n. g.

remark
Additional information

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. (DIOCTYLDIMETHYLAMMONIUMCHLORIDE, (N,N-BIS-(3-AMINOPROPYL) DODECYLAMINE)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (DIOCTYLDIMETHYLAMMONIUMCHLORIDE, (N,N-BIS-(3-AMINOPROPYL) DODECYLAMINE)	Disinfectant, liquid, corrosive, n.o.s. (DIOCTYLDIMETHYLAMMONIUMCHLORIDE, (N,N-BIS-(3-AMINOPROPYL) DODECYLAMINE)
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 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
Limited quantity (LQ)	5 L
Hazard identification number (Kemler No.)	80
tunnel restriction code	E
transport category	3

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU legislation
Other regulations (EU)
Directive 96/82/EC for danger control following severe accidents with dangerous substances:
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.

National regulations
Germany
Störfallverordnung

remark

Anhang I: Mengenschwelle(n) gemäß R-Sätze beachten.

Technische Anleitung Luft (TA-Luft)

weight fraction in % 2,9 % by weight

Number

5.2.5.

Water hazard class (WGK)

wassergefährdend (WGK 2)

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Indication of changes

Sebastian Geiger: Auf Stand EWG1272/2008

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.