

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

1.1 Product identifier

Trade name/designation GREEN&CLEAN M2 ROT | RED | ROUGE | ROSSO **INDEX no.** UFI: F600-D0D6-N00R-5N3C

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 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

SECTION 2: Hazards identification

Hazards description

Hazard designation:

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

Acute Tox. 4

hazard statements for health hazards H302 Harmful if swallowed.

health hazards Skin Corr. 1B

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.

Environmental hazards

Aquatic Acute 1

hazard statements for environmental hazards

H400 Very toxic to aquatic life.

2.2 Label elements

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

Hazard pictograms



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:

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.P280 Wear protective gloves/protective clothing/eye protection/face protection.P285 In case of inadequate ventilation wear respiratory protection.

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.

P304 + P341 IF INHALED: If breathing is difficult, 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.

P310 Sofort GIFTINFORMATIONSZENTRUM oder Arzt anrufen.

P342 + P311 Bei Symptomen der Atemwege: GIFTINFORMATIONSZENTRUM oder Arzt anrufen.

Disposal:

P501 Dispose of contents/container to .

Product identifiers

Subtilisin

Dioctyldimethylammoniumchlorid



Dodecylguanidin mono hydrochlorid
N-(-3-Aminopropyl)-N-docecylpropan-1,3,-diamin

2.3 Other hazards

No data available

ECTION 3: Composition / information on ingredients 3.1/3.2 Substances/Mixtures	
Hazardous ingredients Subtilisin CAS 9014-01-1 EC 232-752-2 INDEX 647-012-00-8 STOT SE 3, H335 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Resp. Sens. 1, H334	1 %
edetic acid; (EDTA) CAS 60-00-4 EC 200-449-4 INDEX 607-429-00-8 Eye Irrit. 2, H319	<5 %
Dioctyldimethylammoniumchlorid CAS 5538-94-3 EC 226-901-0	25 %
Dodecylguanidin mono hydrochlorid CAS 13590-97-1 INDEX 237-030-0 Acute Tox. 4, H302 / Acute Tox. 2, H330 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Aquatic Acute 1, H400	6,5 %
N-(-3-Aminopropyl)-N-docecylpropan-1,3,-diamin CAS 2372-82-9 EC 219-145-8	4 %

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 (NOx). 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 Value 5 - 30 °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
64-17-5	Ethanol	1920 mg/m ³ 1000 ppm		
				Great Britain (UK)
9014-01-1	Subtilisins (proteolytic enzymes as 100% pure crystalline enzyme)	0,00004 mg/m ³		
67-63-0	Propan-2-ol	999 mg/m ³ 400 ppm	1250 mg/m ³ 500 ppm	Great Britain (UK)
07-03-0	riopan-2-oi	999 mg/m 400 ppm	1250 mg/m 500 ppm	
T (T) T (1)				Great Britain (UK)
	erm occupational exposure limit value term occupational exposure limit value			
source: GEST	TIS International Limit Values (http://limitva			
-	nd observation processes: GESTIS Analytic	al Methods (http://amcaw.	1ta.dguv.de/)	
-	ure controls			
Personal	protection equipment			
Eye/face]	protection			
Suitable eye protection:				
Tightly sealed safety glasses.				
Skin protection				
Suitable r				
NBR (Nitrile rubber).				
Breakthr	ough time (maximum wearing t	t ime) >480 min		
Thickness	s of the glove material 0,4 mm			
	l hand protection measures			
Wear cotton undermitten if possible.				
Respiratory protection				
With correct	ct and proper use, and under normal	conditions, breathing	protection is not requ	uired.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid:

viscous

Colour red

rea

Odour

characteristic

		parameter	Method - source - remark
рН	11		
Melting point/freezing point			not determined
Initial boiling point and boiling range			not determined
Flash point (°C)	>63 °C		Flash point (°C):
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	1,05 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
Dynamic viscosity	80 mPa*s	Temperature 25 °C	Newton.
flow time			not determined
Kinematic viscosity			not determined
9.2 Other information			
Solvent content (%) Value 4,14 %			



10.1 Reactivity

No information available.

10.2 Chemical stability No information available.

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 822 mg/kg

Effective dose ATEmix calculated: Species:

Rat

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) toxicity to crustacea 0,24 mg/L

Effective dose

Test durarion 48 h

species

Daphnia magna (Big water flea)

Result / evaluation Toxic to daphnia.

12.2 Persistence and degradability

Biodegradation

ingredient Dioctyldimethylammoniumchlorid Degradation rate (%): <89 % Method OECD 303A



Revision date	02.12.2019
Version	10.3

Assessment/classification

not persistent. Biodegradable.

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.

Appropriate disposal / Package

Cleaned containers may be recycled. 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. (DIOCTYLDIMETHYLAMMO NIUMCHLORIDE, BIS (3- AMINOPROPYL) DODECYLAMINE)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S.) (DIOCTYLDIMETHYLAMMC NIUMCHLORIDE, BIS (3- AMINOPROPYL) DODECYLAMINE)	Disinfectant, liquid, corrosive, n.o.s. (DIOCTYLDIMETHYLAMMONI) UMCHLORIDE, 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



Additional information - Land tran	isport (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.		
Additional information - Air transp Limited quantity (LQ)	bort (ICAO-TI / IATA-DGR) 1		

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.

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

Volatile organic compounds (VOC) content in percent by weight: 4,14 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

2019 Dez: 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.