

# SAFETY DATA SHEET

according to 91/155/EEC

Date of issue/date of revision: 10.07.1997/25.02.2002

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. **Product name:** *GREEN & CLEAN M2 Red, Enzyme-based cleaning agent for dental suction systems and amalgam collectors*

1.2. **Manufacturer:** **METASYS Medizintechnik GmbH**  
Florianistrasse 3, A-6063 Rum bei Innsbruck  
Tel.: +43-512-20 54 20 0 Fax: +43-512-20 54 20 7  
[www.metasys.com](http://www.metasys.com) [info@metasys.com](mailto:info@metasys.com)

## 2. COMPOSITION/ INFORMATION ON INGREDIENTS

2.1. **Chemical characterisation:** Guanidine compound and aliphatic nitrogen compound (26%).

### 2.2. Hazardous components:

Chemical expression	CAS-No.	Contents (%)	Symbol	R-phrases
Cocospropylendiaminbis-guanidiniumacetate	85681-60-3	< 10	C+N	R10, R22, R34, R50
Dialkyldimethyloxethylammoniumpropionat	107879-22-1	< 20	C+N	R22, R34, R50
Alkylbenzyl dimethylammoniumchloride	139-07-1	< 5	C	R22, R34
Protease		< 5	Xn	R42, R36/38
Lipase		< 1	Xn	R42

## 3. POTENTIAL HAZARDS

Irritates eyes and skin.

## 4. FIRST AID MEASURES

4.1. **General instructions:** Remove contaminated or impregnated clothing immediately.

4.2. **Inhalation:** Not applicable.

4.3. **Skin contact:** Wash immediately and thoroughly with soap and water.

4.4. **Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water, including eyelids and beneath them (at least 10 minutes). Take medical advice if irritation persists.

4.5. **Ingestion:** Rinse mouth thoroughly and drink plenty of water. Consult a doctor.

## 5. FIRE-FIGHTING MEASURES

5.1. **Suitable extinguishing agents:** Foam extinguishers, dry powder systems, carbon dioxide extinguishers, water jet.

5.2. **Unsuitable extinguishing agents:** None known.

5.3. **Fire and explosion protection measures:** Product itself does not burn. Adapt fire-extinguishing measures to ambient fire.

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5.4. **Necessary special protection gear:** Wear gas mask and breathing equipment.

5.5. **Additional information:** None.

### 6. ACCIDENTAL RELEASE MEASURES

6.1. **Personal precautions:** Avoid contact with skin and eyes.

6.2. **Environmental precautions:** Avoid disposal of the product via the sewage system. Only dispose product if it is diluted.

6.3. **Suitable cleaning methods:** Rinse soiled objects and floors thoroughly with water.

6.4. **Additional information:** None.

### 7. HANDLING AND STORAGE

7.1. **Handling:** The product is filled into a dispenser. Before application, it has to be diluted with water (1:100) in a second container.

7.2. **Storage:** Protect product against heat and direct sunlight. Do not store the product in open containers (open sachet, open dilution container...).

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. **Additional engineering measures:** None.

8.2. **Specific control parameters:** None.

8.3. **Personal protective equipment:**

*Respiration protection:* Not applicable.

*Hand protection:* Rubber gloves.

*Eye protection:* Tight-fitting goggles.

*Skin/body protection:* None.

*General measures:* None.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. **Appearance:**

*Form:* liquid

*Colour:* red

*Odour:* peppermint

9.2. **Changes of physical state:**

*Melting point:*

up to 5°C/41°F

9.3. **Flash point:**

> 100°C/212°F

9.4. **Ignition point:**

no data available

9.5. **Danger of explosion:**

*Explosion limit:*

no data available

upper: -

lower: -

9.6. **Spontaneous combustion:**

no data available

9.7. **Vapour pressure:**

no data available

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9.8. Density:	no data available
9.9. Viscosity:	100 mPa.sec.
9.10. Solubility:	unlimited solubility
9.11. pH-value:	7.0 (1%-solution)
9.12. Further information:	none

### 10. STABILITY AND REACTIVITY

10.1. **Conditions to avoid:** None if handled correctly. Store under 50°C/122°F.

10.2. **Materials to avoid:** None.

10.3. **Hazardous decomposition products:** In the case of temperatures over 160°C/320 °F, guanidine and its decomposition products can develop.

10.4. **Additional information:** None.

### 11. TOXICOLOGICAL INFORMATION

11.1. **Acute toxicity:**

*LD<sub>50</sub>-Wert/oral/Ratte:* >2500 mg/kg weight

11.2. **Practical experiences:** The product is not poisonous if swallowed. The product (in concentrated form) causes skin and eye irritations.

11.3. **Additional information:** None.

### 12. ECOLOGICAL INFORMATION

12.1. **Elimination (persistence and degradability):** On the basis of the substances contained in the product and/or substances of a comparable structure, the following ecological data has been estimated: the total of organic components contained in the product are >70% degradable according to the OECD classification. Therefore, the product is classified as "readily degradable" (OECD-limit for classification "readily degradable": >=70% DOC-reduction or >=60% BSB/BOD/COD in 28 days).

12.2. **Expected environmental behaviour:** No data available.

12.3. **Aquatic toxicity:**

*Acute fish toxicity:* LC<sub>50</sub> >1 – 100 mg prod./l

*Acute bacteria toxicity:* EC<sub>50</sub> 100 – 500 mg prod./l

*Water-endangering class:* 3 (self-classification)

12.4. **Additional ecological comments:** None.

### 13. DISPOSAL CONSIDERATION

13.1. **Product:** As the product is readily degradable and classified as non-toxic, residues can be disposed via the sewage system provided they are diluted with a large quantity of water.

*Waste material code:* 07 06 99

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**13.2. Contaminated packaging:** No special measures necessary.

### 14. TRANSPORT INFORMATION

**14.1. Land transport:** No dangerous goods as defined by the transport regulations.

**14.2. Inland waterways:** No dangerous goods as defined by the transport regulations.

**14.3. Sea transport:** No dangerous goods as defined by the transport regulations.

**14.4. Air transport:** No dangerous goods as defined by the transport regulations.

**14.5. Additional information:** None.

### 15. REGULATORY INFORMATION

**15.1. Labelling according to EC-regulations:** Labelling according to directives Hazardous substance V, Appendix I, 1.1

*Warning symbol/Warning expression:* Xi (irritating)

*R-phrases:* R36/38 Irritates eyes and skin.

*S-phrases:* S2 Keep away from children.  
S26 In case of contact with the eyes, rinse eyes thoroughly with water and consult a doctor.  
S28 In the case of skin contact, wash immediately with soap and water.  
S39 Wear protective goggles.

**15.2. Further regulations:** None.

### 16. ADDITIONAL INFORMATION

The present information is based on our present knowledge and refers to the product as it is delivered. The present information serves to describe our product in terms of safety requirements and therefore does not guarantee certain product properties.