

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 21.2.2013

Revision: 5.12.2013

1 Identification of substance:

- **Product details:**
- **Trade name:** LM-Glycine
- **Application of the substance / the preparation:** Cleansing of teeth
- **Manufacturer / Supplier:**
LM-Instruments
PO Box 88 (Norrbyn rantatie 8)
FI-21601 Parainen Finland
Tel. +358 2 4546 400
Fax. +358 2 4546 444
- **E-mail address of the competent person responsible for the Safety Data Sheet:**
kari.lehtonen@lm-dental.com
- **Informing contact:** Kari Lehtonen
- **Emergency information:** +358 2 4546 400 or next toxicological information centre

2 Hazards identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment** void
- **Classification system**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:** Void

• Other components:		
CAS: 56-40-6	Glycine	>90%
EINECS: 200-272-2		

4 First aid measures

- **General information:** No special measures required.
 - **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
 - **After skin contact:** Rinse with plenty of water.
 - **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
 - **After swallowing:** Rinse out mouth and then drink plenty of water.
- In case of persistent symptoms consult doctor.

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5 Fire fighting measures**• Suitable extinguishing agents**

Carbon dioxide (CO₂), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.

• For safety reasons unsuitable extinguishing agents Water with a full water jet.**• Special hazards caused by the material, its products of combustion or flue gases:**

Risk of dust explosion if enriched with fine dust in presence of air.

Nitrogen oxides (NO_x)

Carbon monoxide (CO) and Carbon dioxide (CO₂)

Silica fumes

• Protective equipment: Wear self-contained breathing apparatus.**• Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures**• Person-related safety precautions:**

Ensure adequate ventilation.

Avoid skin and eye contact.

Avoid causing dust.

Avoid breathing dust.

Remove all ignition sources.

• Measures for environmental protection: Do not allow to enter drainage system, surface or ground water.**• Measures for cleaning/collecting:**

Ensure adequate ventilation.

Collect mechanically.

Dispose of the material collected according to regulations.

7 Handling and storage**• Handling****• Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Do not breathe dust.

Avoid long or repeated skin contact.

Avoid contact with eyes.

Make sure that all applicable workplace limits are observed.

• Information about protection against explosions and fires:

Enrichment of fine dust in presence of air may cause risk of dust explosion.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

• Storage**• Requirements to be met by storerooms and containers:**

Observe all local and national regulations for storage of water polluting products.

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- **Information about storage in one common storage facility:** none
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
Observe all workplace limits for dust.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Do not breathe dust.
Avoid contact with the eyes.
Avoid close or long term contact with the skin.
Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
Use breathing protection in case of dust formation.
- **Recommended filter device for short term use:** Partikelfilter DIN EN 143 Type P1
- **Protection of hands:**
Protective gloves
To avoid skin problems reduce the wearing of gloves to the required minimum.
Check the permeability prior to each renewed use of the glove.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **Material of gloves**
Nitrile rubber - NBR
Recommended thickness of the material: ≥ 0.11 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
Penetration time: ≥ 8 hours
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

9 Physical and chemical properties:

- **General Information**
Form: Powder
Colour: white

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Smell: odourless**• Change in condition****Melting point/Melting range:** 232 - 236°C

Decomposes before melting.

Boiling point/Boiling range: not determined

- **Flash point:** not applicable
- **Self-inflammability:** Product is not selfigniting.
- **Danger of explosion:** Risk of dust explosion if enriched with fine dust in presence of air.
- **Density at 20°C:** ~ 1.6 g/cm³
- **Solubility in / Miscibility with Water:** Partly miscible

10 Stability and reactivity**• Thermal decomposition / conditions to be avoided:**

To avoid thermal decomposition do not overheat.

Avoid impact, friction, heat, sparks, electrostatic charges.

• Materials to be avoided:

Strong oxidizing agents

Alkaline materials

• Dangerous reactions

The product is not capable of dust explosion in the form supplied; enrichment with fine dust causes risk of dust explosion.

• Dangerous products of decomposition:Carbon monoxide (CO) and Carbon dioxide (CO₂)Nitrogen oxides (NO_x)

Silica fumes

11 Toxicological information**• Acute toxicity:****• Primary irritant effect:****• on the skin:** Dust particles may mechanically irritate the skin.**• on the eye:** Dust particles may mechanically irritate the eye.**• Sensitization:** No sensitizing effect known.**• Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:**• Behaviour in environmental systems:****• Mobility and bioaccumulation potential:** Does not accumulate in organisms.**• Additional ecological information:****• General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water

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13 Disposal considerations

- **Product:**
- **Recommendation** Disposal must be made according to official regulations.
- **European waste catalogue:**
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border):**
- **ADR/RID Class:** -
- **Maritime transport IMDG-Code:**
- **IMDG Class:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Designation according to EC guidelines:**
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.
Observe all safety regulations when handling chemicals.
- **National regulations**
- **Decree to be applied in case of technical fault:** -
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water

16 Other information:

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.