

Material - Safety Data Sheet

1. Identification of the substance/preparation and of the company

1.1 Identification of the product

Chemical Name: Not applicable
 Product Name: DC Ceram 12.5 Paste-Opaque Liquid
 CAS Reg. Nr.: Not applicable
 Formula: Not applicable

1.2 Application of the product

For dental ceramic restoration

1.3 Company

ceramay GmbH + Co. KG
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 Fax: +49 (0) 731 938077717
 e-mail: info@ceramay.de
 Internet: www.ceramay.de

1.4 Emergency telephone number

international emergency call number – **112 (Europe)**
 international emergency call number – **911 (USA)**

2. Composition/Information on ingredients

Mixture of glycerin, water and chloride
 70-97% Glycerin CAS Nr.: 56-81-5
 0-0.4% ZnCl₂ CAS Nr.: 7646-85-7

3. Possible hazards

3.1 Classification

No hazardous product as specified in Directive 67/548/EWG.

3.2 Additional hazards

unknown

4. First Aid Measures

Cause	Removal
Inhalation	Fresh air
Skin contact	Wash off with water, remove contaminated clothing
Eye contact	Rinse with plenty of water
Swallow	Make victim drink plenty of water. Consult doctor if feeling unwell.

5. Fire-Fighting measures

Indication	Remarks
Suitable extinguishing media	carbon dioxide, foam, powder
Unsuitable extinguishing media	Unknown
Special risks	Vapors heavier than air. Forms explosive mixtures with air on intense heating. Acrolein may develop in event of fire. Cool container with spray water from a safe distance. Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater.
Special protective equipment	Do not stay in dangerous zone without suitable chemical protection clothing and self-containing breathing apparatus.

6. Accidental release measures

6.1 Person-related precautionary measures

Do not inhale vapour/aerosols

6.2 Environmental protection measures

Mechanical collection and hold in a suitable container. Do not allow to enter sewerage system

6.3 Procedures for cleaning

Clean up with absorbent material such as Chemizorb[®]

7. Handling and storage

7.1 Handling

No special measures required

7.2 Storage

Recommended storage temperature: +12°C to +38°C. Store under dry conditions

Measures against explosions are not required.

7.3 Special Application (-s)

See instructions for use

8. Exposure Control and Personal Protection

8.1 Limited exposure values

Not applicable, in case of use as directed

8.2 Limitation and Control of Exposure

Not applicable, in case of use as directed

8.2.1 Limitation and Control of Exposure for the Working Place

Protection	Description
Respiratory protection	Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
Hand protection	Not required, use recommended
Eye protection	Wear eye protection glasses while working
Body protection	Wash hands after working with substance. Change contaminated clothing.

8.2.2 Limitation and Control of Environmental Exposure

Not required

9. Physical and Chemical Properties

9.1 General information

	Description
Color	colorless
Physical State/Appearance	viscous liquid
Odour	practically odorless

9.2 Important information on health and environment protection and safety

	Description
pH Value	7
Boiling point	approx. 290°C
Flash point	160°C
Flammability	400°C
Melting point	Not applicable
Risk for explosion	0.9vol%
Fire supporting features	Not applicable
Vapor Pressure	< 0,1mbar
Relative density	approx. 1,26 g/cm ³
Solubility	Soluble in water
Coefficient of flow	Not applicable
Viscosity	Not applicable
Vapor density	3,1g/l
Evaporation speed	Not applicable

9.3 Additional information

Not required

10. Stability and Reactivity

10.1 Conditions to avoid

Thermal decomposition: in the event of fire: see chapter 5.

10.2 Substances to avoid

strong oxidizing agents, nitric acid/ conc. Sulfuric acid, phosphorus oxides, peroxide compounds, hydrogen peroxide, halogens.

10.3 Dangerous decomposition products

Explosive with air in a vaporous/gaseous state when heated

11. Toxicological Information

11.1 Verification of toxicological actions

Acute toxicity: Glycerine

LD₅₀ (oral, rats): 12600mg/kg

LD₅₀ (dermal, rabbit) >18700mg/kg

Specific symptoms in animal studies:

Skin irritation test (rabbit): slight irritations

Eye Irritation test (rabbit): slight irritations

Sub acute to chronic toxicity: Sensitization test (guinea pig): negative

11.2 Practical experiences

Further toxicological information:

Naturally occurring substance.

After inhalation:

Slight irritations of: respiratory tract, lungs.

Slight irritation of:

skin, mucous membranes

After swallowing of large amounts: vomiting, gastric pain, headache, drowsiness, diarrhea, cyanosis

The product should be handled with the usual care when dealing with chemicals.

12. Ecological Information

12.1 Ecological toxicity

Biological effects: Harmful effect for aquatic organism: low

Fish toxicity: L. idus LC₅₀: >10000mg/l, C. auratus, LC₅₀: >5000mg/l/24h

Daphnia toxicity: Daphnia magna EC₅₀: 1000mg/l/24h.

Maximum permissible toxic concentration:

Algae toxicity: Sc. quadricauda IC₅: >10000mg/l/7d,

Bacterial toxicity: Ps. putida: EC₅: 1000mg/l/16h,

Protozoa: E. sulcatum EC₅: 3200mg/l/72h

12.2 Mobility

See point 9 for other physical or chemical properties

12.3 Persistency and Degradability

BOD 71% of ThOD/5d, COD: 95% of ThOD, ThOD: 1.217g/g

Biodegradation: >60%/28d (closed bottle test)

12.4 Bioaccumulative potential

Not applicable

12.5 Other damaging effects

No ecological problems are to be expected when the product is handled and used due care and attention.

13. Disposal considerations

13.1 Product

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

13.2 Recommendation

Disposal in compliance with the official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be traded like household waste or recycled

14. Transport Information

Information	Description
UN-Number	No record
Class	No record
Proper Shipping Name	No record
Packing Group	No record
Marine Pollutant	No record
Other relevant information	No hazard goods according to the transport regulations. No special precaution measures.

15. Regulations

15.1 Labeling

Labeling	Description
Symbols	CE Labeling 0123
Risk phrases	Not required
Safety phrases	Not required
Special Labeling	According to the available data, the product is not hazardous according to the chemical law, resp. declaration on hazardous substances. Batchnumber required.

15.2 National Regulations

Regulation	Description	
Indication on employment limitation	<input type="checkbox"/> applicable	
	<input type="checkbox"/> inapplicable	
Incident Reg	<input type="checkbox"/> applicable	
	<input type="checkbox"/> inapplicable	
Classification according to Safety Reg: Technical instructions Air	<input type="checkbox"/> applicable	
	<input type="checkbox"/> inapplicable	
Water hazard Class	<input type="checkbox"/> applicable	
	<input type="checkbox"/> inapplicable	
Indications to Directive 1999/13/EC on the Emission limitation on volatile organic compounds (VOC's Directive)	<input type="checkbox"/> applicable	
	<input type="checkbox"/> inapplicable	
Other regulations	<input type="checkbox"/> applicable	
	<input type="checkbox"/> inapplicable	
Limitations and prohibited regulations	<input type="checkbox"/> applicable	
	<input type="checkbox"/> inapplicable	

16. Other information

The information contained herein is based on the present state of knowledge.
 The Safety Data Sheet describes the product with regard to the appropriate safety precautions.
 It does not represent a guarantee of the properties of the product.