

Material Safety Data Sheet According to decree (EC) No. 1907/2006

1. Product- and Company Identification

<u>Product name:</u>	DC Glas-Ionomercem, powder, art. No. 702208
<u>Manufacturer:</u>	DC Dental Central Großhandelsges.mBH Carl-Zeiss-Str.2 D-22946 Trittau, Germany
<u>Contact:</u>	Tel.: ++49 (0)4154/8437 0 Fax: ++49 (0)4154/8437 33

2. Hazard Identification

<u>Hazard-denotation:</u>	
Xi	Irritant
<u>Special hazard for human and environment:</u>	
R36	Irritating to eyes.

3. Composition/Information on Ingredients

<u>Chemical name:</u>	
	Preparation of dental glass and polyacrylic acid.

4. First-Aid-Measures

<u>In case of inhalation:</u>	In case of prolonged exposure take patient to open air. If feeling unwell seek medical advice.
<u>In case of skin contact:</u>	Wash with soap and water.
<u>In case of eye contact:</u>	Rinse with plenty of water, contact a physician.
<u>In case of ingestion:</u>	Immediately seek medical advice.

5. Fire-fighting-measures

<u>Suitable extinguish media:</u>	
	Not flammable.

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6. Accidental Release Measures

Personal precautions:

By effect of steam/dust/aerosol wear breathing apparatus. Wear personal protection cloths.

Environmental precautions:

Do not empty into drains.

Methods for cleaning up:

Take up mechanically. Take up with absorbent material (for ex. Sand, silicious earth, universal-binding-material, sawdust)

7. Handling and storage

Handling

Advice for safety handling:

If handled to directions no special measures necessary

Technical Measures:

Keep container tightly closed. Take care of adequate ventilation.

Personal protective equipment:

Take care of adequate protecting gloves. Avoid contact with eyes.

Advice for fire- and explosion prevention:

No special measures necessary.

Storage:

Technical measures:

Keep container in a well-ventilated place.

Indigestibility Materials:

alkali

Storage conditions:

Keep container tightly closed and dry. Avoid frost

Incomatible products:

Keep off moisture

Recommended packaging materials:

Container of glass, metal or solvent-stable plastics.

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8. Exposure Controls / Personal Protection

Personal precautions:

Respiratory-protection:

Take a breathing apparatus by effect of aerosol or fog

Hand- and skin protection:

Use gloves on base of nature latex., time of breakthrough: 120 min (EN 374). This data is only a guidance for selecting a suitable chemical-protection-glove.

General advices:

Protection gloves should be changed regular, especially after intensive contact with the product.

Eye protection:

Goggles which are close to the eyes.

Hygiene measures:

Do not eat or drink while working.

9. Physical and Chemical Properties

<u>Appearance:</u>	Lightgrey powder
<u>Odour:</u>	weak
<u>pH.value:</u>	Ca. 2
<u>Changes in physical state:</u>	
<u>Decomposition temperature:</u>	>200°C
<u>Flashpoint:</u>	Not applicable
<u>Explosion limit:</u>	Not applicable
<u>Vapour pressure:</u>	Not vanishing
<u>Rel. Vapour density:</u>	<1 at 20° C
<u>Density:</u>	Ca. 1,15g/cm ³ at 20° C
<u>Solubility in water:</u>	Ca. 10%
<u>Viscosity:</u>	500 – 2000 mPa s at 20° C

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10. Stability and Reactivity

<u>Thermal decomposition:</u>	No decomposition if handled according to directions.
<u>Hazardous reactions:</u>	None, if handled and stored according to directions.
<u>Conditions to avoid:</u>	Dampness, moisture
<u>Materials to avoid:</u>	Alkaly
<u>Hazardous decomposition products:</u>	None, if handled and stored according to directions.

11. Toxicological Information

<u>Acute oral toxicity:</u>	LD 50 (rat) > 5000 mg/kg
<u>Irritation of skin:</u>	In case of prolonged exposure irritation is possible.
<u>Irritation of eye:</u>	In case of prolonged exposure irritation of mucous membrane is possible.
<u>Additional notes:</u>	Avoid prolonged skin contact and contact to eyes with the product. Aerosols and steam in high Concentrations could cause irritations of mucous membrane of the breathing apparatus (nose, Throat, lungs).

12. Ecological Information

<u>Persistence and degradability:</u> The biodegradability is small. The product can be eliminated through adsorption in sewages	
<u>Aquatic toxicity:</u>	
Fish toxicity:	
LC50 Brachydanio rerio (Zebrafisch), DIN 38412 Part 15	>1.000 mg/l
LC0 Leuciscus idus, DIN 38412, 48 h	>1.500 mg/l
OECD 203,96 h (Analogy)	
<u>Daphnia toxicity:</u>	
EC50 Daphnia magna, different methods, 48 h (Analogy)	>200mg/l
<u>Algae toxicity:</u>	
EC10 Chlorella kessien, growth-retarding test, 95 h (Analogy)	30-1000 mg/l
<u>Additional information:</u> Avoid seeping into earth, water and drain.	

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13. Disposal Considerations

<u>Waste from residues:</u>	In accordance with local, state and federal regulations the product can be given to a waste disposal site or waste incineration plant.
<u>Waste key no.:</u>	31446 (waste of silicic acid with harmful contamination, mainly organic)

14. Transport Information / Rules

Additional information:
No dangerous cargo.

15. Regulatory Information

Labelling according international regulations (GefStoffV/EG):
The product is to be labelled according to the EG-Rules/GefStoffV

Identification-letter and hazard denotation of the product:

Xi Irritant

R-phrases:

R36 Irritating to the eyes

S-phrases:

S26 If contacted with eyes rinse immediately with plenty of water.

S28 If contacted with skin immediately wash with water and soap

16. Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or any process, unless specified in the text.

This safety data sheet only contains information relating to safety and does not replace any product information or product specification.