

## Safety Data Sheet

According to 91/155 EEC & 93/112 EEC

Printing date 03.03.2008

Version 2

Revision: 03.03.2008

### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** **GC G-Cem Capsule**
- **Application of the substance / the preparation** Auxiliary for dental technology
- **Manufacturer/Supplier:**  
GC EUROPE N.V.  
Interleuvenlaan 13  
B-3001 Leuven  
Tel. +32/(0)16/39.80.50  
Fax +32/(0)16/40.26.84  
quality@gceurope.com
- **Further information obtainable from:** Regulatory Affairs
- **Information in case of emergency:**  
For Great Britain:  
Poisons Information Service: 0870 600 6266

In case of emergency, you can use <http://www.who.int/ipcs/poisons/centre/directory/euro/en/index.html> to find the phone number of the poison centre.

### 2 Hazards identification

- **Hazard description:**



Xi Irritant

- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
R 33 Danger of cumulative effects.  
R 43 May cause sensitisation by skin contact.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 3 Composition/information on ingredients

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

- **Dangerous components:**

CAS: 70293-55-9 EINECS: 274-547-0	4-Methacryloxyethyltrimellitate anhydride (4-META) Xn,  Xi; R 22-33-36/38-43	6 - 10%
CAS: 72869-86-4 EINECS: 276-957-5	Urethane Dimethacrylate (UDMA) Xi; R 36/37/38	1.5 - 3%

(Contd. on page 2)

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(Contd. of page 1)

	Alumino-silicate glass	65 - 70%
	Pigment	< 1%
	Dimethacrylate ☒ Xi; R 36/37/38	15 - 20%
CAS: 7732-18-5 EINECS: 231-791-2	Distilled water	1.5 - 3%
	Phosphoric ester monomer	1-2%
	Initiator	<1%
CAS: 10373-78-1	Camphorquinone	< 1%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.

(Contd. on page 3)

GB

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(Contd. of page 2)

· **Further information about storage conditions:** None.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
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**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling

### 9 Physical and chemical properties

#### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification Colourless
<b>Odour:</b>	Characteristic

#### · Change in condition

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Self-igniting:** Product is not selfigniting.

(Contd. on page 4)

GB

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(Contd. of page 3)

· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Density:</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Slightly soluble.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Water:</b>	1.9 %
· <b>Solids content:</b>	98.1 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant
- **Sensitisation** May cause sensitisation by skin contact.

### 12 Ecological information

- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

GB

(Contd. on page 5)

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(Contd. of page 4)

**14 Transport information**

- Land transport ADR/RID (cross-border)
- ADR/RID class: -

- Maritime transport IMDG:
- IMDG Class: -
- Marine pollutant: No

- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -

**15 Regulatory information**

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**  
Xi Irritant
- **Hazard-determining components of labelling:**  
4-Methacryloxyethyltrimellitate anhydride (4-META)
- **Risk phrases:**  
33 Danger of cumulative effects.  
43 May cause sensitisation by skin contact.
- **Safety phrases:**  
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
24 Avoid contact with skin.  
37 Wear suitable gloves.  
60 This material and its container must be disposed of as hazardous waste.

**16 Other information**

- **Relevant R-phrases**  
22 Harmful if swallowed.  
33 Danger of cumulative effects.  
36/37/38 Irritating to eyes, respiratory system and skin.  
36/38 Irritating to eyes and skin.  
43 May cause sensitisation by skin contact.
- **Department issuing MSDS:** Regulatory Affairs and Quality Management Systems
- **Contact:** Dr. P. Manouvriez
- **\* Data compared to the previous version altered.**