

## Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/25/2008

Version 3

Reviewed on 02/25/2008

### 1 Identification of substance

- **Product details**
- **Trade name:** *GC Initial Powder*
- **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
- **Information department:** Regulatory Affairs

### 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture: consisting of the following components.

- **Dangerous components:**

CAS: 1344-28-1	Aluminium oxide	15.0%
EINECS: 215-691-6		

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

### 3 Hazards identification

- **Information pertaining to particular dangers for man and environment:**  
The product does not have to be labelled due to the calculation procedure of international guidelines.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

### 4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

(Contd. on page 2)

# Material Safety Data Sheet

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**Trade name: GC Initial Powder**

(Contd. of page 1)

- **After skin contact:** Generally the product does not irritate the skin.
- **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>, extinguishing 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:** No special measures required.
- **Measures for cleaning/collecting:** Pick up mechanically.
- **Additional information:** No dangerous substances are released.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** 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.
- **Further information about storage conditions:** None.

## \* 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

### 14464-46-1 cristobalite

REL ()	0.05* mg/m <sup>3</sup> *respirable dust
TLV ()	0.025 R mg/m <sup>3</sup>

### 1344-28-1 Aluminium oxide

PEL ()	15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV ()	(10) mg/m <sup>3</sup> (E)

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.

(Contd. on page 3)

# Material Safety Data Sheet

## acc. to ISO/DIS 11014

Printing date 02/25/2008

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**Trade name: GC Initial Powder**

(Contd. of page 2)

· **Protection of hands:**

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:** Not required.

## 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Solid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic

· **Change in condition**

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

**Boiling point/Boiling range:** 2980°C (5396°F)

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined.

· **Solubility in / Miscibility with**

**Water:** Insoluble.

· **Solvent content:**

**Organic solvents:** 0.0 %

· **Solids content:** 100.0 %

## 10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous products of decomposition:** No dangerous decomposition products known.

## 11 Toxicological information

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

(Contd. on page 4)

USA

# Material Safety Data Sheet

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Printing date 02/25/2008

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Reviewed on 02/25/2008

**Trade name: GC Initial Powder**

(Contd. of page 3)

- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations:

## 12 Ecological information

- **General notes:** Generally not hazardous for water

## 13 Disposal considerations

- **Product:**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **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 Regulations

- **Sara**
- **Section 355 (extremely hazardous substances):**  
None of the ingredient is listed.
- **Section 313 (Specific toxic chemical listings):**  
1344-28-1 Aluminium oxide
- **TSCA (Toxic Substances Control Act):**  
All ingredients are listed.
- **Proposition 65**
- **Chemicals known to cause cancer:**  
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:**  
None of the ingredients is listed.

(Contd. on page 5)

# Material Safety Data Sheet

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Version 3

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**Trade name: GC Initial Powder**

(Contd. of page 4)

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

14464-46-1	cristobalite	1
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· **NTP (National Toxicology Program)**

14464-46-1	cristobalite	K
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· **TLV (Threshold Limit Value established by ACGIH)**

1344-28-1	Aluminium oxide	A4
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· **MAK (German Maximum Workplace Concentration)**

14464-46-1	cristobalite	1
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1344-28-1	Aluminium oxide	2
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14464-46-1	cristobalite	
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

· **National regulations:**

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

## 16 Other information

· **Department issuing MSDS:** Regulatory Affairs and Quality Management Systems

· **Contact:** Dr. P. Manouvriez

· **\* Data compared to the previous version altered.**