

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 06/04/2009

Version 3

Reviewed on 06/04/2009

1 Identification of substance

- **Product details**
- **Trade name:** GC Caviton
- **Application of the substance / the preparation** Auxiliary for dental technology
- **Manufacturer/Supplier:**
GC EUROPE N.V.
Interleuvenlaan 33
B-3001 Leuven
Tel. +32/(0)16/74.10.00
Fax +32/(0)16/40.26.84
- **Information department:** Regulatory Affairs

2 Composition/Data on components

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

- **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6	ethyl alcohol	Danger:  2.6/2	5-10%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide	Warning:  4.1.C/1	40-50%
CAS: 9003-20-7	Vinyl acetate		10-15%
CAS: 26499-65-0	Plaster of paris		30%

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

3 Hazards identification

- **Hazard description:**



Dangerous for the environment

- **Information pertaining to particular dangers for man and environment:**
The product has to be labelled due to the calculation procedure of international guidelines.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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



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



- **GHS label elements**



4.1/1 - Very toxic to aquatic life with long lasting effects.

- **Prevention:**

Avoid release to the environment.

- **Response:**

Collect spillage.

- **Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **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:**
CO₂, 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:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:** Pick up mechanically.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.

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- **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:**

1314-13-2 zinc oxide

PEL	15* 5** 5*** mg/m ³ Dust only *total dust **respirable dust ***fume
REL	Short-term value: C 15* 10*** mg/m ³ Long-term value: 5 5*** mg/m ³ *15-min; dust only ***fume
TLV	Short-term value: 10* mg/m ³ Long-term value: 2* mg/m ³ *as respirable fraction

26499-65-0 Plaster of paris

PEL	15* 5** mg/m ³ *total dust **respirable fraction
REL	10* 5** mg/m ³ *total dust **respirable fraction

64-17-5 ethyl alcohol

PEL	1900 mg/m ³ , 1000 ppm
REL	1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , NIC-1000 ppm Long-term value: 1880 mg/m ³ , 1000 ppm NIC-A3

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **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.

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· **Eye protection:** Not required.

9 Physical and chemical properties

· General Information

Form:	Pasty
Color:	Colored
Odor:	Characteristic

· Change in condition

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

· **Flash point:** 13°C (55°F)

· **Ignition temperature:** 425°C (797°F)

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

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

· **Density:** Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Solvent content:

Organic solvents:	5.0 %
VOC content:	5.0 %

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.
- **Sensitization:** No sensitizing effects 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

- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish

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- **General notes:**
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms

13 Disposal considerations

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

14 Transport information

- **DOT regulations:**



- **Hazard class:** 3
- **Identification number:** UN1170
- **Packing group:** II
- **Proper shipping name (technical name):** ETHANOL SOLUTION, mixture
- **Label:** 3

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



- **ADR/RID class:** 3 (F1) Flammable liquids
- **Danger code (Kemler):** 33
- **UN-Number:** 1170
- **Packaging group:** II
- **Label:** 3
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 1170 ETHANOL SOLUTION, mixture

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1170
- **Label:** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-D
- **Marine pollutant:** No

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· **Propper shipping name:** ETHANOL SOLUTION, mixture

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 3
 · **UN/ID Number:** 1170
 · **Label:** 3
 · **Packaging group:** II
 · **Propper shipping name:** ETHANOL SOLUTION, mixture

· **UN "Model Regulation":** UN1170, ETHANOL SOLUTION, mixture, 3, II
 · **Environmental hazards:** Product contains environmentally hazardous substances:

15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

1314-13-2 | zinc oxide

9003-20-7 | Vinyl acetate

64-17-5 | ethyl alcohol

· **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.

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

None of the ingredients is listed.

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

64-17-5 | ethyl alcohol

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

1314-13-2 | zinc oxide

II

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

9003-20-7 | Vinyl acetate

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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· TLV (Threshold Limit Value established by ACGIH)	
64-17-5 ethyl alcohol	A4

· MAK (German Maximum Workplace Concentration)	
64-17-5 ethyl alcohol	5

· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

· 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 has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

Dangerous for the environment

· **Risk phrases:**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

· **Safety phrases:**

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

Use appropriate container to avoid environmental contamination.

This material and its container must be disposed of as hazardous waste.

16 Other information

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

· **Contact:**

Jos Van Bragt

Tel: +32 (0)16 74 16 14

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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