

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/16/2015

1 Identification

· Product identifier

· Trade name: GC Fujivest Premium (Powder)

 Relevant identified uses of the substance or mixture and uses advised against Dental material

The product is intended for professional use.

To avoid risks for humans and environment obtain instructions.

- · Application of the substance / the mixture Auxiliary for manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: GC America Inc.

3737 W. 127th Street Alsip, IL 60803 USA

sds@gcamerica.com

· Information department: Regulatory Affairs

Emergency telephone number:

During normal opening times (Mon.-Fri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900 Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2A H319 Causes serious eye irritation.

· Additional information:

The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



- · Signal word Warning
- **Hazard-determining components of labeling:** quartz (SiO2)
- Hazard statements
 Harmful if inhaled.
 Causes serious eye irritation.

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Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear eye protection / face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
Additional information:
5.3 % of the mixture consists of component(s) of unknown toxicity.
Classification system:
NFPA ratings (scale 0 - 4)
Health = 2
Fire = 0
C Reactivity = 0
HMIS-ratings (scale 0 - 4)
HEALTH *1 Health = *1
FIRE 0 Fire = 0
REACTIVITY 0 Reactivity = 0
Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
14808-60-7	quartz (SiO2)	25-50%
14464-46-1	cristobalite	25-50%
1309-48-4	magnesium oxide	5-10%
Additional information:		

Additional information:

If a substance is marked with **, then substance is a trade secret. This is allowed under OSHA's Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Business Information (CBI).

4 First-aid measures

- · Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product. If symptoms persist consult doctor.
- After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation. Do not use mouth to mouth or mouth to nose resuscitation.

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After skin contact: Rinse with warm water. If symptoms persist consult doctor.
After eye contact: Protect unharmed eye. Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.
Information for doctor:
Most important symptoms and effects, both acute and delayed No further relevant information available.
Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
- · Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Remove persons from danger area. Avoid formation of dust. Avoid contact with the eyes and skin. Wear protective clothing. Environmental precautions: 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. Do not allow to penetrate the ground/soil. In case of seepage into the ground inform responsible authorities. · Methods and material for containment and cleaning up: Pick up mechanically. Prevent formation of dust. Dispose of the collected material according to regulations. Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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7 Handling and storage

· Handling:

- Precautions for safe handling Observe instructions for use.
 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of dust.
 Do not inhale dust / smoke / mist.
 Any deposit of dust which cannot be avoided must be regularly removed.
 Avoid contact with the eyes and skin.
- Information about protection against explosions and fires: Dust can combine with air to form an explosive mixture.
- · Storage: Store only in the original receptacle.
- Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Observe instructions for use / storage.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

· Control parameters

· Com	ponents with limit values that require monitoring at the workplace:
1480	8-60-7 quartz (SiO2)
PEL	see Quartz listing TWA = (10 / (%SiO ₂) + 2)
REL	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m³ *as respirable fraction
1446	4-46-1 cristobalite
PEL	1/2 value from respirable dust formulae for Quartz
REL	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m³ *as respirable fraction
1309	-48-4 magnesium oxide
PEL	Long-term value: 15* mg/m ³ fume; *total particulate
TLV	Long-term value: 10* mg/m³ *as inhalable fraction
· Addi	tional information: The lists that were valid during the creation were used as basis.
· Pers · Gene The u	osure controls onal protective equipment: eral protective and hygienic measures: usual precautionary measures for handling chemicals should be followed. ot inhale dust / smoke / mist.

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Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

• Breathing equipment: Suitable respiratory protective device recommended.

Protection of hands: Protective gloves

· 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: Safety glasses

9 Physical and chemical properties

 Information on basic physical and General Information 	chemical properties
Appearance:	Solid
Color:	White
· Odor:	Undetermined.
· Odor threshold:	Not determined.
[·] pH-value at 20 °C (68 °F):	6.3
· Change in condition	
Melting point/Melting range:	1710 °C (3110 °F)
Boiling point/Boiling range:	> 999 °C (> 1830 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	Undetermined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
[.] Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
[·] Bulk density at 20 °C (68 °F):	840 kg/m³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.

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Solubility in / Miscibility with Water:	Insoluble.	
Partition coefficient (n-octano	I/water): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
Solids content:	100.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Stable at ambient temperature.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- LD/LC50 values that are relevant for classification: No further relevant information available.
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories

 IARC (International Agency for Research on Cancer) 	
quartz (SiO2)	1
cristobalite	1
· NTP (National Toxicology Program)	
quartz (SiO2)	K
cristobalite	К
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
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Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

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· Carcinogenic categories' legend:

IARC Group 1: The agent is carcinogenic to humans.

IARC Group 2A: The agent is probably carcinogenic to humans.

IARC Group 2B: The agent is possibly carcinogenic to humans.

IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.

IARC Group 4: The agent is probably not carcinogenic to humans.

NTP K: Known to be human carcinogen.

NTP R: Reasonably anticipated to be human carcinogen.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · 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.

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name		
DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	

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 Packing group DOT, ADR, IMDG, IATA 	Void	
· Environmental hazards:		
· Marine pollutant:	No	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
· UN "Model Regulation":	-	

15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture · SARA (Superfund Amendments and Reauthorization Act)

· SARA (Superrund Amendments and Reauthorization Act)
· 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):
quartz (SiO2)
cristobalite
ammonium dihydrogenorthophosphate
magnesium oxide
zircon
trimagnesium bis(orthophosphate)
· Carcinogenic categories
· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

quartz (SiO2)

cristobalite

magnesium oxide

· NIOSH-Ca (National Institute for Occupational Safety and Health)

quartz (SiO2)

cristobalite

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



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- · Signal word Warning
- Hazard-determining components of labeling: quartz (SiO2)
 Hazard statements

Harmful if inhaled. Causes serious eye irritation.

- Precautionary statements
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wear eye protection / face protection.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 Call a poison center/doctor if you feel unwell.
 If eye irritation persists: Get medical advice/attention.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

	Department issuing SDS: Regulatory Affairs
	Contact:
	Regulatory Affairs
	Telephone No. +1 (708) 597-0900
	sds@gcamerica.com
•	Date of preparation / last revision 04/20/2015 / -
	Abbreviations and acronyms:
	GHS: Globally Harmonized System of Classification and Labelling of Chemicals
	HCS: Hazard Communication Standard (USA)
	MSDS: Material Safety Data Sheet
	SDS: Safety Data Sheet
	ADN: Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures
	(European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways) ECHA: European Chemicals Agency
	OSHA: Occupational Safety and Health Administration (USA)
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the
	nternational Carriage of Dangerous Goods by Road)
	MDG: International Maritime Code for Dangerous Goods
	DOT: US Department of Transportation
	ATA: International Air Transport Association
	ACGIH: American Conference of Governmental Industrial Hygienists
	CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)
	HMIS: Hazardous Materials Identification System (USA)
	LC50: Lethal concentration, 50 percent
	_D50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative
	Acute Tox. 4: Acute toxicity, Hazard Category 4
	Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
	Sources
	Manufacturers' MSDSs/SDSs
	 OSHA (https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html)
	• TOXNET (http://toxnet.nlm.nih.gov/)
	• ECHA (http://echa.europa.eu/)
	• EnviChem (www.echemportal.org)
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· Notes:

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* * Data compared to the previous version altered. This version replaces all previous versions.

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