

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

072040020

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

072040004 072040012

**SECTION 1 - SOURCE/IDENTITY/USE INFORMATION****SUPPLIER**

GC AMERICA INC.  
3737 West 127<sup>th</sup> Street  
Alsip, IL 60803  
Telephone: 708-597-0900  
Hours: Mon - Fri 8:00 a.m. – 5:00 p.m. CST  
Transportation Emergency Telephone No. 800-424-9300

**COMMON NAME:** GC FUJIVEST POWDER, GC FUJIVEST II POWDER, GC FUJIVEST SUPER POWDER  
GC FUJIVEST LOW EXPANSION POWDER, FUJIVEST PLATINUM POWDER,  
**FUJIVEST PREMIUM POWDER**

**CHEMICAL NAME:** N.A.

**PRODUCT USE:** Dental phosphate bonded investment material-powder component.

*The following information is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.*

**SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Crystalline Silica	14464-46-1	TWA=0.05mg/m <sup>3</sup> (Respirable Dust) (ACGIH)	N.E.	20-50
Silica, Crystalline - Quartz	14808-60-7	TWA=0.1mg/m <sup>3</sup> (Respirable Dust) (ACGIH)	N.A.	30-50
Diammonium Hydrogenorthophosphate		N.E.	N.E.	5-10

**SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**

**BOILING POINT:** N.A. **SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** N.E.  
**VAPOR PRESSURE:** N.A. **MELTING POINT:** N.A.  
**VAPOR DENSITY:** N.A. **EVAPORATION RATE:** N.A.  
**SOLUBILITY IN WATER:** N.E. **ODOR THRESHOLD:** N.E.  
**COEFFICIENT OF OIL/WATER DISTRIBUTION:** N.E. **APPEARANCE AND ODOR:** White powder, odorless

**SECTION 4 - FIRE AND EXPLOSION DATA**

**FLASH POINT:** Not flammable **FLAMMABLE LIMITS:** N.A.  
**EXTINGUISHING MEDIA:** Material is not combustible. Use extinguishing media appropriate to the surrounding area.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** NONE  
**HAZARDOUS COMBUSTION PRODUCTS:** N.A.

**SECTION 5 - REACTIVITY DATA**

**STABILITY:** Stable  Unstable   
**POLYMERIZATION:** Will Not Occur  Will Occur

**CONDITIONS TO AVOID:** N.A.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing chemicals, strong bases, strong acids.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Contains Ammonium Phosphate which when heated to decomposition emits very toxic fumes of NO<sub>x</sub>, NH<sub>3</sub>, and PO<sub>x</sub>.

**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION**

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY	X				X	Group 2A		Calif. Prop. 65
SENSITIZER		X						

ROUTES OF ENTRY: Inhalation  Skin  Ingestion

**HEALTH HAZARD (Acute and Chronic):** Contains crystalline silica, which is considered a hazard by inhalation. IARC has classified it as a probable carcinogenic for humans. Crystalline silica is also a known cause of silicosis, a non-cancerous lung disease.

**CALIFORNIA PROP 65 WARNING:** This product contains crystalline silica, a chemical known to the State of California to cause cancer.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Irritation and soreness in eyes, throat, and nose.

**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Individuals with pre-existing conditions of the lungs may have increased susceptibility to the toxicity of excessive exposures.

**EMERGENCY FIRST AID PROCEDURES:**

**INHALATION:** If symptoms are experienced, remove victim to fresh air. If symptoms persist, obtain medical attention.

**INGESTION:** Have victim rinse mouth with water. DO NOT induce vomiting. If vomiting occurs naturally, rinse mouth and give water. If symptoms persist, obtain medical advice.

**SKIN:** If irritation occurs, wash gently and thoroughly with lukewarm water and non-abrasive soap. If irritation persists, obtain medical advice.

**EYES:** If irritation occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 10 minutes. If irritation persists, obtain medical advice.

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE**

**IN CASE OF RELEASE OR SPILL:** Scrape up and discard into clean, labeled containers.

**WASTE DISPOSAL METHOD:** Comply with Federal, State, and local regulations. If approved, may be transferred to a land disposal site.

**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Product should be handled so as to minimize the amount of airborne dust. Store in sealed containers in a cool, dry area away from incompatible materials. Protect containers from damage or breakage.

**SECTION 8 - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Where there is potential for inhalation exposure to product dust, mist, or aerosols in excess of exposure limits, wear NIOSH/MSHA approved respiratory protection.

**VENTILATION:** Local Exhaust: YES Mechanical: N.E. Special: N.E. Other: N.E.

**PROTECTIVE GLOVES:** Rubber gloves

**EYE PROTECTION:** Safety glasses or goggles

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** N.A.

**WORK/HYGIENIC PRACTICE:** Observe good hygienic practices

**SECTION 9- PREPARATION INFORMATION**

*This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR*

**DATE:** 09 January 2006

**REVIEWED:** 28 February 2012

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

*The information herein is given in good faith. No warranty expressed or implied is made.*

FIRE - 0

TOXICITY - 2

NFPA  
REACTIVITY - 0

SPECIAL -

# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

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**



GHS07

- **Signal word** Warning

- **Hazard-determining components of labeling:**

quartz (SiO<sub>2</sub>)

- **Hazard statements**

Harmful if inhaled.

Causes serious eye irritation.

(Contd. on page 2)

US

# Safety Data Sheet

## acc. to OSHA HCS 29 CFR 1910.1200

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/16/2015

**Trade name:** GC Fujivest Premium (Powder)

(Contd. of page 1)

- **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

Reactivity = 0

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



Health = \*1

Fire = 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 (SiO <sub>2</sub> )	25-50%
14464-46-1	cristobalite	25-50%
1309-48-4	magnesium oxide	5-10%

- **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.

(Contd. on page 3)

-US-

# Safety Data Sheet

## acc. to OSHA HCS 29 CFR 1910.1200

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/16/2015

**Trade name:** GC Fujivest Premium (Powder)

(Contd. of page 2)

- **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.

US

(Contd. on page 4)

# Safety Data Sheet

## acc. to OSHA HCS 29 CFR 1910.1200

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/16/2015

Trade name: GC Fujivest Premium (Powder)

(Contd. of page 3)

### 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**

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

#### 14808-60-7 quartz (SiO<sub>2</sub>)

PEL	see Quartz listing TWA = ( 10 / (%SiO <sub>2</sub> ) + 2 )
REL	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction

#### 14464-46-1 cristobalite

PEL	½ value from respirable dust formulae for Quartz
REL	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction

#### 1309-48-4 magnesium oxide

PEL	Long-term value: 15* mg/m <sup>3</sup> fume; *total particulate
TLV	Long-term value: 10* mg/m <sup>3</sup> *as inhalable fraction

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - The usual precautionary measures for handling chemicals should be followed.
  - Do not inhale dust / smoke / mist.

(Contd. on page 5)

US

# Safety Data Sheet

## acc. to OSHA HCS 29 CFR 1910.1200

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/16/2015

**Trade name:** GC Fujivest Premium (Powder)

(Contd. of page 4)

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 chemical properties**

· **General Information**

· **Appearance:**

**Form:** 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/m<sup>3</sup>

· **Relative density** Not determined.

· **Vapour density** Not applicable.

· **Evaporation rate** Not applicable.

(Contd. on page 6)

US



# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/16/2015

Trade name: GC Fujivest Premium (Powder)

(Contd. of page 5)

· <b>Solubility in / Miscibility with Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Solids content:</b>	100.0 %
· <b>Other information</b>	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 (SiO <sub>2</sub> )	1
cristobalite	1

- **NTP (National Toxicology Program)**

quartz (SiO <sub>2</sub> )	K
cristobalite	K

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

(Contd. on page 7)

-US

# Safety Data Sheet

## acc. to OSHA HCS 29 CFR 1910.1200

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/16/2015

**Trade name:** GC Fujivest Premium (Powder)

(Contd. of page 6)

· **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.

## 14 Transport information

· **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

(Contd. on page 8)

US

# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/16/2015

**Trade name:** GC Fujivest Premium (Powder)

(Contd. of page 7)

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

## 15 Regulatory information

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

· <b>Section 355 (extremely hazardous substances):</b>
None of the ingredient is listed.

· <b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients is listed.

· <b>TSCA (Toxic Substances Control Act):</b>
quartz (SiO <sub>2</sub> )
cristobalite
ammonium dihydrogenorthophosphate
magnesium oxide
zircon
trimagnesium bis(orthophosphate)

- Carcinogenic categories

· <b>EPA (Environmental Protection Agency)</b>
None of the ingredients is listed.

· <b>TLV (Threshold Limit Value established by ACGIH)</b>	
quartz (SiO <sub>2</sub> )	A2
cristobalite	A2
magnesium oxide	A4

· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
quartz (SiO <sub>2</sub> )
cristobalite

- GHS label elements

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

- Hazard pictograms



GHS07

(Contd. on page 9)

US

# Safety Data Sheet

## acc. to OSHA HCS 29 CFR 1910.1200

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Version US-EN-Rev 1

Reviewed on 04/16/2015

**Trade name:** GC Fujivest Premium (Powder)

(Contd. of page 8)

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
quartz (SiO<sub>2</sub>)
- **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 International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: 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  
LD50: 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](http://www.echemportal.org))

(Contd. on page 10)

US

# Safety Data Sheet

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Printing date 04/20/2015

Version US-EN-Rev 1

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**Trade name:** GC Fujivest Premium (Powder)

(Contd. of page 9)

**Notes:**

CAS Registry Number is a Registered Trademark of the American Chemical Society.  
CHEMTREC® is a registered service mark of the American Chemistry Council, Inc.

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

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