

GC FUJI PLUS - POWDER MATERIAL SAFETY DATA SHEET

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SECTION 1 - SOURCE/IDENTITY/USE INFORMATION

DISTRIBUTOR

GC AMERICA INC. 3737 West 127th St. Alsip, Illinois, 60803 Telephone: 708-597-0900

Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T.

Transportation Emergency Telephone No. 800-424-9300

COMMON NAME: GC FUJI PLUS

GC FUJI PLUS CAPSULE

CHEMICAL NAME: N.A.

PRODUCT USE: Reinforced glass ionomer cement - 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	%
Fluoro Alumino-silicate glass	Not listed	TLV=10mg/m³	N.E.	95-100
(amorphous)		PEL=15mg/m ³		
		(ACGIH)		

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT:N.E.SPECIFIC GRAVITY (H2O = 1): 2.56VAPOR PRESSURE:N.E.MELTING POINT: $>1,350^{\circ}$ CVAPOR DENSITY:N.E.EVAPORATION RATE: N.E.SOLUBILITY IN WATER:InsolubleODOR THRESHOLD: N.E.

COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E. APPEARANCE AND ODOR: Very fine 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: N.A. UNUSUAL FIRE AND EXPLOSION HAZARDS: $N.E.\,$

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide

SECTION 5 - REACTIVITY DATA

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

CONDITIONS TO AVOID: Avoid high temperatures and humidity

INCOMPATIBILITY (Materials to Avoid): N.E.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: At elevated temperatures various fluoride compounds will be liberated, including toxic hydrogen fluoride and sodium potassium fluoride.



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GC FUJI PLUS - POWDER

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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						
SENSITIZER		X						

Skin 🛛 Ingestion 🖂 Inhalation 🔀 **ROUTES OF ENTRY:**

HEALTH HAZARD (Acute and Chronic): Dusts of silica glass are also a known cause of silicosis, a non-cancerous lung disease. SIGNS AND SYMPTOMS OF OVEREXPOSURE: Irritation and soreness in throat and nose.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May aggravate preexisting upper respiratory and lung disease.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove to fresh air, drink water to clear throat and blow nose to evacuate dust. If irritation persists, seek medical attention.

INGESTION: Ingestion may require medical assistance.

SKIN: Wash with soap and water.

EYES: Flush with large quantities of water. If irritation develops seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Avoid generating dust while sweeping. If an excessive amount of dust is generated use a filter equipped vacuum and MSHA/NIOSH approved mask.

WASTE DISPOSAL METHOD: In accordance with local, state and federal regulations.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store at normal room temperatures and humidity.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: Minimize exposure to dust in accordance with good hygiene practice. If needed, use MSHA-NIOSH approved respirator for dusts, mists and fumes.

VENTILATION: Local Exhaust: Yes Mechanical: Yes Special: N.A. Other: N.A.

PROTECTIVE GLOVES: Disposable vinyl gloves recommended.

EYE PROTECTION: Safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eyewash station **WORK/HYGIENIC PRACTICE:** Follow safe hygiene practices.

SECTION 9- PREPARATION INFORMATION

This	data is supplied	l to comply with (OSHA Hazard Con	ımunication Standa	rd 29 CFR 1910	0.1200 and W.H.M.LS. (CPR

FIRE – 0	TOXICITY – 1	NFPA REACTIVITY – 0	SPECIAL –	
The information herein is gi	ven in good faith but no warranty	expressed or implied is made.		
N.A. = NOT APPLICABL N.E. = NOT ESTABLISH				
REVISED: 13 March 2				
DATE: 09 January 2006				

REACTIVITY - 0 SPECIAL -



GC FUJI PLUS CONDITIONER MATERIAL SAFETY DATA SHEET

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SECTION 1 - SOURCE/IDENTITY/USE INFORMATION

DISTRIBUTOR

GC AMERICA INC. 3737 West 127th St. Alsip, Illinois, 60803 Telephone: 708-597-0900

Hours: Mon. - Fri. 8:00 am. - 5:00 pm. C.S.T.

Transportation Emergency Telephone No. 800-424-9300

COMMON NAME: GC FUJI PLUS CONDITIONER

CHEMICAL NAME: N.A.

PRODUCT USE: To be used to clean and prepare the tooth surface prior to using Fuji Plus Powder/Liquid.

The following information is provided with regard to the toxicity and hazards of the pure components present in this product.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Citric Acid	77-92-9	N.E.	LD50=11,700 mg/kg	10
			oral rat	
			LC50=N.E.	
Distilled water	7732-18-5	N.E.	N.E.	87
Iron (III) chloride	7705-08-0	1 mg/m3 as Fe	LD50=C.900 mg/kg	3
(Ferric chloride)			oral rat	
			LC50=N.E.	
Food additive Blue No. 1	3844-45-9	N.E.	N.E.	< 0.1

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT:N.E.SPECIFIC GRAVITY (H2O = 1):N.E.VAPOR PRESSURE:N.E.MELTING POINT:N.E.VAPOR DENSITY:N.E.EVAPORATION RATE:N.E.SOLUBILITY IN WATER:N.E.ODOR THRESHOLD:N.E.

COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E. APPEARANCE AND ODOR: Yellow, no odor

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: N.E. FLAMMABLE LIMITS: N.E.

EXTINGUISHING MEDIA: Water, CO2, foam, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus in confined areas or when exposed to combustion products. Use water to cool down fire exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N.E. HAZARDOUS COMBUSTION PRODUCTS: N.E.

SECTION 5 - REACTIVITY DATA

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

CONDITIONS TO AVOID: Heat, sparks, open flames, moisture

INCOMPATIBILITY (Materials to Avoid): Organic acids, humidity, alcohols and strong bases

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Ferric Chloride - at 200° releases Chlorine gas



GC Fuji Plus Conditioner

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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						
SENSITIZER		X						

Inhalation 🖂 Skin 🖂 Ingestion | **ROUTES OF ENTRY:**

HEALTH HAZARD (Acute and Chronic): Eye and skin contact will cause irritation. Ingestion will cause adverse health effects.

Inhalation will cause irritation of the respiratory tract. Aqueous solutions are highly corrosive to skin and eyes.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Assist breathing if necessary. Consult a physician immediately.

INGESTION: Do not induce vomiting nor give fluids. Consult a physician immediately. **SKIN:** Rinse with flowing water for at least 15 minutes. Consult a physician immediately. EYES: Flush immediately with water for 15 minutes. Consult a physician immediately.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Sweep up and discard. Flush area with water.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state and local regulations.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store in cool, dry place. Avoid eye and skin contact.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: Approved respirator and nuisance dust mask

VENTILATION: Local Exhaust: YES Mechanical: N.A. Special: N.A. Other: N.A.

PROTECTIVE GLOVES: Rubber or plastic **EYE PROTECTION:** Safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N.E.

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: 16 May 2006 **REVIEWED:** 13 March 2012

N.A. = NOT APPLICABLEN.E. = NOT ESTABLISHED

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

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NFPA TOXICITY - 1

REACTIVITY - 1

SPECIAL - C

FIRE - 1



GC FUJI PLUS - LIQUID material safety data sheet

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Transportation Emergency Telephone No. 800-424-9300

COMMON NAME: GC FUJI PLUS

GC FUJI PLUS CAPSULE

CHEMICAL NAME: N.A.

PRODUCT USE: Reinforced glass ionomer cement - Liquid 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	%
Distilled water	7732-18-5	N.E.	N.E.	20-30
Polyacrylic acid	9003-01-4	TWA=10ppm	LD50 = 2500 mg/kg	20-30
		(ACGIH)	(oral rat)	
			LC50 = N.E.	
2-Hydroxyethylmethacrylate	868-77-9	N.E.	LD50=5888mg/Kg	25-35
			(oral rat)	
			LC50=N.E.	
Urethanedimethacrylate	72869-86-4	N.E.	N.E.	5-10

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.

APPEARANCE AND ODOR: Colorless, slightly viscous and odorless liquid

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: N.E. FLAMMABLE LIMITS: N.A.

EXTINGUISHING MEDIA: Alcohol foam, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Full protective clothing and self-contained breathing apparatus.

SECTION 5 - REACTIVITY DATA

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

CONDITIONS TO AVOID: High heat

INCOMPATIBILITY (Materials to Avoid): None known

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known



GC Fuji Plus - Liquid

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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						
SENSITIZER		X						

ROUTES OF ENTRY: Inhalation Skin Ingestion

HEALTH HAZARD (Acute and Chronic): Mildly toxic by all routes. Acidic solution, care should be taken to avoid contact with skin or

eyes.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

EMERGENCY FIRST AID PROCEDURES:

INGESTION: Do not induce vomiting - give large volumes of water. Seek medical attention.

SKIN: Wash with soap and water. If irritation persists seek medical attention.

EYES: Flush with water for 15 minutes. If irritation develops seek medical attention. **INHALATION:** Remove to fresh air. If irritation persists seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Cover with absorbent material. Collect spilled material. Clean up residue.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and federal regulations.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store in a cool dry place in tightly closed container. Store away from heat.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: None required

VENTILATION: Local Exhaust: N.A. Mechanical: N.A. Special: N.E. Other: N.A.

PROTECTIVE GLOVES: Latex gloves are recommended

EYE PROTECTION: Goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Do not spill on clothing. Eyewash station

WORK/HYGIENIC PRACTICE: N.E.

SECTION 9- PREPARATION INFORMATION

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DATE: 16 May 2006 **REVIEWED:** 13 March 2012

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FIRE 1 TOXICITY 1 REACTIVITY 0 SPECIAL ACID