Safety Data Sheet (SDS)

Section 1 – CHEMICALS AN	D COMPANY IDENTIFI	CATION
	Chemical Identifier	FujiCEM Apaste
	Product Code	210701-3
	Name of Supplier	GC Corporation
	Address	76-1 Hasunuma-Cho, Itabashi-Ku, Tokyo, Japan, Postal code 174-8585
	Company Contact	Quality Assurance department
	Phone Number	81-3-3965-1388
	Fax Number	81-3-3965-1276
	Restriction on Use	Prohibit use by anyone other than qualified dentistry.
		Prohibit use for purposes other than those written in this product IFU.
		Prohibit use for patients with a history of
		hypersensitivity symptoms such as rash and
		dermatitis to glass ionomer cement, methacrylate- based polymers, and methacrylate-based monomers.
		Surgeons / patients who have a rash, dermatitis, or
		other hypersensitivity to this product should
		discontinue use and seek medical attention
		immediately.
Section 2 - HAZARDS IDEN		
GHS Classification of the		
	Health Hazards	Serious eye damage/eye irritation Category 2A
		Skin sensitization Category 1
		Other hazards than mentioned above are Not
GHS Label Elements		classified or Classification not possible.
GHS Laber Elements	Diatograma	
	Pictograms	^
GHS Laber Elements	Pictograms	
GHS Laber Elements	Pictograms	
GHS Laber Elements	Pictograms	
GHS Laber Elements	-	
GHS Laber Elements	Signal Word	Warning
GHS Laber Elements	-	H317 May cause an allergic skin reaction
GHS Laber Elements	Signal Word Hazard Statements	H317 May cause an allergic skin reaction H319 Causes serious eye irritation
GHS Laber Elements	Signal Word Hazard Statements Precautionary State	H317 May cause an allergic skin reaction H319 Causes serious eye irritation ments
GHS Laber Elements	Signal Word Hazard Statements	H317 May cause an allergic skin reaction H319 Causes serious eye irritation ments Avoid breathing
GHS Laber Elements	Signal Word Hazard Statements Precautionary State	H317 May cause an allergic skin reaction H319 Causes serious eye irritation ments Avoid breathing dust/fume/gas/mist/vapours/spray.(P261)
GHS Laber Elements	Signal Word Hazard Statements Precautionary State	H317 May cause an allergic skin reaction H319 Causes serious eye irritation ments Avoid breathing dust/fume/gas/mist/vapours/spray.(P261) Wash eye thoroughly after handling.(P264)
GHS Laber Elements	Signal Word Hazard Statements Precautionary State	H317 May cause an allergic skin reaction H319 Causes serious eye irritation ments Avoid breathing dust/fume/gas/mist/vapours/spray.(P261)
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GHS Laber Elements	Signal Word Hazard Statements Precautionary State	H317 May cause an allergic skin reaction H319 Causes serious eye irritation ments Avoid breathing dust/fume/gas/mist/vapours/spray.(P261) Wash eye thoroughly after handling.(P264) Contaminated work clothing should not be allowed out of the workplace.(P272)
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GHS Laber Elements	Signal Word Hazard Statements Precautionary State Prevention	H317 May cause an allergic skin reaction H319 Causes serious eye irritation ments Avoid breathing dust/fume/gas/mist/vapours/spray.(P261) Wash eye thoroughly after handling.(P264) Contaminated work clothing should not be allowed out of the workplace.(P272) Wear protective gloves/protective clothing/eye protection/face protection.(P280) IF ON SKIN: Wash with plenty of soap and water.(P302+P352)
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advice/attention.(P337+P313)

Take off contaminated clothing and wash it before reuse. (P362+P364)

Disposal

Dispose of contents and container in accordance with local, regional and national regulations (to be specified). (P501)

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture		Mixture			
Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./	ISHL No. ISHL No.	CAS RN
Fluoro-alumino-silicate glass	Confidential	Confidentia I	Confidenti al		Confidential
Hydroxethyl methacrylate (HEMA)	Confidential	Confidentia I	Confidenti al	Existing	Confidential
Urethane dimethacrylate (UDMA)	Confidential	Confidentia I	Confidenti al	Confidenti al	Confidential
Dimethacrylate	Confidential	Confidentia	Confidenti	Existing	Confidential
Sillicon dioxide	Confidential	Confidentia	Confidenti	Confidenti	Confidential
Initiator	Confidential	Confidentia I	Confidenti al	Existing	Confidential
Pigment	Confidential	Confidentia	Confidenti	Existing	Confidential

Section 4 - FIRST AID MEASURES

Section 4 - FIRST AID MEASURES	
Inhalation	Call a doctor if you feel unwell.
Skin Contact	IF ON SKIN: Wash with plenty of soap and water.
	Take of contaminated clothing and wash before re-
	use.
	If skin irritation or rash occurs, get medical advice and attention.
	Specific treatment.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth.
-	IF SWALLOWED: Call a doctor if you feel unwell.
Section 5 – FIRE FIGHTING MEASURES	
Suitable Extinguishing Media	Use extinguishing agent suitable for type of surrounding fire.
	When dust occurs, use dry sand.
Unsuitable Extinguishing Media	No information available
Specific Hazards in Case of Fire	Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.
Specific Fire Fighting	Fight fire from upwind position if possible Keep away from sources of ignition and use appropriate extinguishing media.
	Prohibit unauthorized staff from entering the area around the fire.
	Keep unnecessary people away.
Special Protective Equipment and Precautions for Fire	Use goggles in combination with dust mask, and another protections as appropriate to situation.

Environmental Ensure adequate ventilation. Precautions Do not discharge into the drains, surface waters or ground water directly. Methods and Equipment for Containment and Cleaning Up Sweep or vacuum spills to drums or containers. Prevention Measures for Secondary Accidents Keep away from sources of ignition and prepare extinguishing media. Section 7 – HANDLING AND STORAGE Handling Handling Technical Measures Prevention Measures for Secondary Accidents Please comply with this section and the contents of this product IFU. Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSUBE CONTROLS / PERSONAL PROTECTION". Use local exhaust ventilation in case of production of fume or mist. Frecautions for Safe Nover. Preceautions for Safe Wash hands thoroughly after handling. Wear eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Storage Conditions for Safe Refer to "Section 10 – STABILITY AND REACTIVITY". Substances or Use local exhaust ventilation in case of production of fume or inst. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Storage Conditions for Safe Refer to "Section 10 – STABILITY AND REACTIVITY".	Section 6 - ACCIDENTAL RE Personal Precautions, Protective Equipment and Emergency Procedures		Use goggles in combination with dust mask, and another protections as appropriate to situation.
Secondary Accidents extinguishing media. Section 7 - HANDLING AND STORAGE Please comply with this section and the contents of this product IFU. Handling Technical Measures Please comply with this section and the contents of this product IFU. Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION". Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Precautions for Safe Wash hands thoroughly after handling. Wear eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing dust/fume/gas/mist/vapours/spray. Prevents Handling of Substances or Substances or Substances or Storage Storage Conditions for Safe Storage Refer to "Section 10 - STABILITY AND REACTIVITY". Storage Conditions for Safe Storage Refer to "Section 10 - STABILITY AND REACTIVITY". Storage Conditions for Safe Storage Refer to "Section 10 - STABILITY AND REACTIVITY". Storage Conditions for Safe Storage Refer to "Section 10 - STABILITY AND REACTIVITY". Storage Conditions for Safe Storage Refer to "Section 10 - STABILITY AND REACTIVITY". Storage Conditions for Safe Storage	Precautions Methods and Equipment for Containment and		Ensure adequate ventilation. Do not discharge into the drains, surface waters or ground water directly.
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Physical State solid Form paste		Eye/Face Protection Skin and Body	If necessary,wear protective eye protection.
Physical State solid Form paste	Section 9 - PHYSICAL AND		- S
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Colour Light yellow	Form Colour		paste Light yellow

	Odour		monomer odor
	Melting Point/Freezing		No data available
	Point Boiling Point or Initial		No data available
	Boiling Point and Boiling		
	Ranges		
	Flammability		No data available
	Lower and Upper	Lower Limit	No data available
	Explosion Limit / Flammability Limit		
	Flammapility Limit	Upper Limit	No data available
	Flash Point		No data available
	Auto-Ignition		No data available
	Temperature		
	Decomposition		No data available
	Temperature		
	pH Kina and Mina address		No data available
	Kinematic Viscosity Solubility		No data available No data available
	Partition Coefficient : n-		No data available
	Octanol/Water		
	Vapour Pressure		No data available
	Density and/or Relative		No data available
	Density		NI 1
	Relative Gas Density Particle Characteristics		No data available No data available
Sec	tion 10 - STABILITY AND Reactivity	REACTIVITY	Stable under normal conditions of use.
	Chemical Stability		Stable under normal conditions of use.
	Possibility of Hazardous		Under normal conditions of use, no dangerous
	Reaction Conditions to Avoid		reaction is known. No information available
	Incompatible Substances		No information available
	or Mixtures		
	Hazardous Decomposition		No information available
	Products		
C			
Sec	tion 11 - TOXICOLOGICA Acute Toxicity	Oral	Classification not possible
	, louise reality		
		Dermal	Classification not possible
		Inhalation	(gas)
			Does not fall under gas based on GHS definitions.
			(vapour)
			Unable to classify
			(dust and mist)
			Classification not possible
	Skin Corrosion/Irritation		Classification not possible
	Shin Ourrosion/ Irritation		Classification not possible
	Serious Eye Damage/Eye		Category 2A
	Irritation		
	Respiratory Sensitization		Unable to classify

Skin Sensitization

Germ Cell Mutagenicity Carcinogenicity Reproductive Toxicity

Specific Target Organ Toxicity (Single Exposure)

Specific Target Organ Toxicity (Repeated Exposure) Aspiration Hazard

Section 12 - ECOLOGICAL INFORMATION Hazardous to the Aquatic Environment, Short-Term (Acute)

Hazardous to the Aquatic Environment, Long-Term (Chronic) Ecotoxicity Persistence **Bioaccumulative Potential**

Mobility in Soil Hazardous to the Ozone Laver

Section 13 - DISPOSAL CONSIDERATIONS **Residual Waste**

Contaminated Container and Packaging

Category 1

Unable to classify Unable to classify (Reproductive toxicity) Classification not possible (Reproductive toxicity, effects on or via lactation)

Unable to classify Classification not possible

Classification not possible

Classified as Classification not possible since the kinematic viscosity is unknown.

Classification not possible

Classification not possible

No data available No data available No data available

No data available Unable to classify

Before disposal, make the wastes harmless, stabilized, and neutralized, and minimize danger and toxicity of the wastes. Dispose of waste in accordance with local,state and federal regulations.

Passed to a licensed waste contractor.

In case of disposal of empty containers, remove the content thoroughly.

Section 14 - TRANSPORT INFORMATION

International Regulations Regulatory

Information by Sea Marine Pollutant Not applicable Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, the IBC Code Regulatory Not regulated Information by Air Regulatory Information by Road

Not regulated

Not applicable

Regulations in Japan

Not regulated

	Regulatory Information by Sea	Not regulated
	Marine Pollutant Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, the IBC Code	Not applicable Not applicable
	Regulatory Information by Air	Not regulated
esponse		None

Emergency Respons Guide Number

Section 15 - REGULATORY INFORMATION

It is recommended to consult the local regulations of the state/region to determine the identification as hazardous material.

Section 16 - OTHER INFORMATION

Information Contact Other Property Described in item 1

Since this product consists of multiple individually packaged components, this SDS is written for each component.

The information herein is given in good faith, but no warranty expressed or implied, is made.

Safety Data Sheet (SDS)

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Section 1 ONLIMICALS AND		
	Chemical Identifier	FujiCEM Bpaste
	Product Code	210701-2
	Name of Supplier	GC Corporation
	Address	76-1 Hasunuma-Cho, Itabashi-Ku, Tokyo, Japan,
		Postal code 174–8585
	Company Contact	Quality Assurance department
	Phone Number	81-3-3965-1388
	Fax Number	81-3-3965-1276
	Restriction on Use	Prohibit use by anyone other than qualified dentistry.
		Prohibit use for purposes other than those written in this product IFU.
		Prohibit use for patients with a history of hypersensitivity symptoms such as rash and dermatitis to glass ionomer cement, methacrylate– based polymers, and methacrylate–based monomers.
		Surgeons / patients who have a rash, dermatitis, or other hypersensitivity to this product should discontinue use and seek medical attention immediately.
Section 2 – HAZARDS IDENT GHS Classification of the		
	Health Hazards	Germ cell mutagenicity Category 2
		Carcinogenicity Category 1A
		Specific target organ toxicity (repeated exposure) Category 1 (respiratory apparatus kidney immunological system)
		Other hazards than mentioned above are Not classified or Classification not possible.

GHS Label Elements Pictograms



Danger H341 Suspected of causing genetic defects
H350 May cause cancer
H372 Causes damage to respiratory apparatus, kidney, immunological system through prolonged or repeated exposure
nents
Obtain special instructions before use.(P201)
Do not handle until all safety precautions have been read and understood.(P202)
Do not breathe
dust/fume/gas/mist/vapours/spray.(P260)
Wash hand thoroughly after handling.(P264)
Do not eat, drink or smoke when using this product.(P270)
Wear protective gloves/protective clothing/eye protection/face protection.(P280)
IF exposed or concerned: Get medical advice/attention.(P308+P313)
Get medical advice and attention if you feel unwell.(P314)
Store locked up.(P405)
Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS Distinction of Substance Mixture

Distinction of Substance or Mixture		Mixture			
Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ ENCS No.		CAS RN
Polyacrylic acid	Confidential	Confidentia I	Confidenti al	Existing	Confidential
Distilled Water	Confidential	Confidentia I	Confidenti al	Confidenti al	Confidential
Silicon dioxide	Confidential	Confidentia I	Confidenti al	Existing	Confidential
Polybasic carboxylic acid	Confidential	Confidentia I	Confidenti al	Confidenti al	Confidential
Initiator	Confidential	Confidentia I	Confidenti al	Confidenti al	Confidential

Section 4 - FIRST AID MEASURES Inhalation

Skin Contact

Call a doctor if you feel unwell.

 $\ensuremath{\mathsf{IF}}$ exposed or concerned: Get medical advice and attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice and attention.

 $\ensuremath{\mathsf{IF}}$ exposed or concerned: Get medical advice and attention.

Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	IF exposed or concerned: Get medical advice and
	attention.
Ingestion	Rinse mouth.
	IF SWALLOWED: Call a doctor if you feel unwell.
	IF exposed or concerned: Get medical advice and attention.
Section 5 – FIRE FIGHTING MEASURES	
Suitable Extinguishing	Use extinguishing agent suitable for type of
Media	surrounding fire.
Unsuitable Extinguishing	When dust occurs, use dry sand. No information available
Media	
Specific Hazards in Case	Risk of producing harmful gases such as carbon
of Fire	monoxide. Avoid inhalation of smoke or gases.
Specific Fire Fighting	Fight fire from upwind position if possible Keep away from sources of ignition and use
	appropriate extinguishing media.
	Prohibit unauthorized staff from entering the area
	around the fire. Keep unnecessary people away.
Special Protective	Use goggles in combination with dust mask, and
Equipment and	another protections as appropriate to situation.
Precautions for Fire	
Section 6 – ACCIDENTAL RELEASE MEASURES	
Personal Precautions,	Use goggles in combination with dust mask, and
Protective Equipment and	another protections as appropriate to situation.
Emergency Procedures	
	Large spills :Evacuate area.
	Ensure adequate ventilation.
Environmental Precautions	Do not discharge into the drains, surface waters or ground water directly.
Methods and Equipment	Sweep or vacuum spills to drums or containers.
for Containment and Cleaning Up	
Prevention Measures for	Keep away from sources of ignition and prepare
Secondary Accidents	extinguishing media.
Section 7 - HANDLING AND STORAGE	
Handling Technical Measure	Please comply with this section and the contents of this product IFU.
	Provide ventilation system and use necessary
	personal protective equipment as described in
	"Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
	Use local exhaust ventilation in case of production of fume or mist.
	Facilities storing or utilizing this material should be
	equipped with an eyewash facility and a safety shower.
Precautions for Sa	Shower.
Handling	fe Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapours/spray.

	9	Refer to [‴] Section 10 - STABILITY AND REACTIVITY [″] .
Storage	Conditions for Safe Storage	Refer to [‴] Section 10 - STABILITY AND REACTIVITY [″] . Store locked up.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

	Exposure Limits (ACGIH)		
Silicon dioxide	TWA 0.025 mg/m3(R), STEL -		
Engineering Controls		Use local exhaust ventilation in case of production of fume or mist.	
		Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.	
Personal Protective Equipment	Respiratory Protection	If necessary, wear respiratory protection.	
	Hand Protection	Wear protective gloves.	
		Wear eye protection/face protection.	
	Skin and Body Protection	Wear protective clothing.	
tion 9 – PHYSICAL AND (CHEMICAL PROPERTIE	ES	
Physical State		solid	
Form		paste	
Colour		White	
Odour		monomer odor	
Melting Point/Freezing Point		No data available	
Boiling Point or Initial Boiling Point and Boiling Ranges		No data available	
Flammability		No data available	
Lower and Upper Explosion Limit / Flammability Limit	Lower Limit	No data available	
	Upper Limit	No data available	
Flash Point		No data available	
Auto-Ignition Temperature		No data available	
Decomposition Temperature		No data available	
pH		No data available	
Kinematic Viscosity		No data available	
Solubility		No data available	
Partition Coefficient : n- Octanol/Water		No data available	
Vapour Pressure		No data available	
Density and/or Relative Density		No data available	
Relative Gas Density		No data available	

F	ion 10 - STABILITY AND Reactivity	REACTIVITY	Stable under normal conditions of use. Stable under normal conditions of use.
	Chemical Stability Possibility of Hazardous		Under normal conditions of use, no dangerous
	Reaction		reaction is known.
I	Conditions to Avoid ncompatible Substances or Mixtures		No information available No information available
ŀ	Hazardous Decomposition Products		No information available
0		NEODIATION	
	ion 11 – TOXICOLOGICA Acute Toxicity	L INFORMATION Oral	Classification not possible
		Dermal	Classification not possible
		Inhalation	(gas) Does not fall under gas based on GHS definitions.
			(vapour) Unable to classify
			(dust and mist)
_			Unable to classify
5	Skin Corrosion/Irritation		Classification not possible
	Serious Eye Damage/Eye rritation		Classification not possible
F	Respiratory Sensitization		Unable to classify
5	Skin Sensitization		Unable to classify
(Germ Cell Mutagenicity		Category 2
(Carcinogenicity		Category 1A
F	Reproductive Toxicity		(Reproductive toxicity) Unable to classify
			(Reproductive toxicity, effects on or via lactation)
			Unable to classify
	Specific Target Organ Toxicity (Single Exposure)		Classification not possible
٦	Specific Target Organ Foxicity (Repeated Exposure)		Category 1(respiratory apparatus)
ļ	Aspiration Hazard		Category 1(kidney) Category 1(immunological system) Classification not possible
Secti	ion 12 – ECOLOGICAL IN		
Hazardous to the Aquatic Environment, Short-Term			Classification not possible
-	Acute)		
E	Hazardous to the Aquatic Environment, Long-Term Chronic)		Classification not possible

	Ecotoxicity		No data available		
	Persistence		No data available		
	Bioaccumulative Potential		No data available		
	Mobility in Soil		No data available		
	Hazardous to the Ozone		Unable to classify		
	Layer				
Se	ction 13 – DISPOSAL CON	SIDERATIONS			
	Residual Waste		Before disposal, make the wastes harmless,		
			stabilized, and neutralized, and minimize danger and		
			toxicity of the wastes.		
			Dispose of waste in accordance with local,state and		
			federal regulations.		
	Contaminated Container		Passed to a licensed waste contractor.		
	and Packaging				
			In case of disposal of empty containers, remove the		
			content thoroughly.		
Sa	ction 14 - TRANSPORT IN				
00	International Regulations	Regulatory	Not regulated		
		Information by Sea			
		Marine Pollutant	Not applicable		
		Liquid Substance	Applicable		
		Transported in Bulk			
		According to			
		MARPOL 73/78,			
		Annex II, the IBC			
		Code			
		Regulatory	Not regulated		
		Information by Air			
	Regulations in Japan	Regulatory	Not regulated		
		Information by Road			
		Regulatory	Not regulated		
		Information by Sea			
		Marine Pollutant	Not applicable		
		Liquid Substance	Applicable		
		Transported in Bulk			
		According to			
		MARPOL 73/78, Annex II , the IBC			
		Code			
			N		
		Regulatory Information by Air	Not regulated		
	F	Information by Air	News		
	Emergency Response Guide Number		None		
Se	Section 15 - REGULATORY INFORMATION				
00			ns of the state/region to determine the identification		
	as hazardous material.				

Section 16 - OTHER INFORMATION

Information Contact Other Property

Described in item 1

Since this product consists of multiple individually packaged components, this SDS is written for each component.

The information herein is given in good faith, but no warranty expressed or implied, is made.