

Preparation Date 2021/07/02

Safety Data Sheet (SDS)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

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 IDENTIFICATION

GHS Classification of the Chemical

Health Hazards	Serious eye damage/eye irritation Category 2A Skin sensitization Category 1 Other hazards than mentioned above are Not classified or Classification not possible.
----------------	---

GHS Label Elements

Pictograms



Signal Word	Warning
Hazard Statements	H317 May cause an allergic skin reaction H319 Causes serious eye irritation

Precautionary Statements

Prevention	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)
------------	--

Response	IF ON SKIN: Wash with plenty of soap and water.(P302+P352) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
----------	--

Specific treatment.(P321)
If skin irritation or rash occurs: Get medical advice/attention.(P333+P313)
If eye irritation persists: Get medical 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.		CAS RN
			ENCs No.	ISHL No.	
Fluoro-alumino-silicate glass	Confidential	Confidential	Confidential	Confidential	Confidential
Hydroxethyl methacrylate (HEMA)	Confidential	Confidential	Confidential	Existing	Confidential
Urethane dimethacrylate (UDMA)	Confidential	Confidential	Confidential	Confidential	Confidential
Dimethacrylate	Confidential	Confidential	Confidential	Existing	Confidential
Silicon dioxide	Confidential	Confidential	Confidential	Confidential	Confidential
Initiator	Confidential	Confidential	Confidential	Existing	Confidential
Pigment	Confidential	Confidential	Confidential	Existing	Confidential

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 off 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 other protections as appropriate to situation.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Use goggles in combination with dust mask, and another protections as appropriate to situation.
Environmental Precautions	Large spills :Evacuate area. Ensure adequate ventilation.
Methods and Equipment for Containment and Cleaning Up	Do not discharge into the drains, surface waters or ground water directly. 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	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 Handling	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.
Storage	Prevents Handling of Incompatible Substances or Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Refer to "Section 10 – STABILITY AND REACTIVITY". Store in well-ventilated place.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

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 Hand Protection Eye/Face Protection Skin and Body Protection	If ne We If necessary,wear protective eye protection. If necessary,wear protective clothing.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	solid
Form	paste
Colour	Light yellow

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
Particle Characteristics		No data available

Section 10 – STABILITY AND REACTIVITY

Reactivity		Stable under normal conditions of use.
Chemical Stability		Stable under normal conditions of use.
Possibility of Hazardous Reaction		Under normal conditions of use, no dangerous reaction is known.
Conditions to Avoid Incompatible Substances or Mixtures		No information available
Hazardous Decomposition Products		No information available

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	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) Classification not possible
Skin Corrosion/Irritation		Classification not possible
Serious Eye Damage/Eye Irritation		Category 2A
Respiratory Sensitization		Unable to classify

Skin Sensitization	Category 1
Germ Cell Mutagenicity	Unable to classify
Carcinogenicity	Unable to classify
Reproductive Toxicity	(Reproductive toxicity) Classification not possible (Reproductive toxicity, effects on or via lactation)
Specific Target Organ Toxicity (Single Exposure)	Unable to classify Classification not possible
Specific Target Organ Toxicity (Repeated Exposure)	Classification not possible
Aspiration Hazard	Classified as Classification not possible since the kinematic viscosity is unknown.

Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	Classification not possible
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 Layer	Unable to classify

Section 13 – DISPOSAL CONSIDERATIONS

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

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

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	Described in item 1
Other Property	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

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 IDENTIFICATION

GHS Classification of the Chemical	
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



Signal Word	Danger
Hazard Statements	H341 Suspected of causing genetic defects H350 May cause cancer H372 Causes damage to respiratory apparatus, kidney, immunological system through prolonged or repeated exposure
Precautionary Statements	
Prevention	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)
Response	IF exposed or concerned: Get medical advice/attention.(P308+P313) Get medical advice and attention if you feel unwell.(P314)
Storage	Store locked up.(P405)
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.		CAS RN
			ENCS No.	ISHL No.	
Polyacrylic acid	Confidential	Confidential	Confidential	Existing	Confidential
Distilled Water	Confidential	Confidential	Confidential	Confidential	Confidential
Silicon dioxide	Confidential	Confidential	Confidential	Existing	Confidential
Polybasic carboxylic acid	Confidential	Confidential	Confidential	Confidential	Confidential
Initiator	Confidential	Confidential	Confidential	Confidential	Confidential

Section 4 – FIRST AID MEASURES

Inhalation

Call a doctor if you feel unwell.
IF exposed or concerned: Get medical advice and attention.

Skin Contact

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

If skin irritation occurs: Get medical advice and attention.
IF exposed or concerned: Get medical advice and attention.

Eye Contact	<p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>IF exposed or concerned: Get medical advice and attention.</p>
Ingestion	<p>Rinse mouth.</p> <p>IF SWALLOWED: Call a doctor if you feel unwell.</p> <p>IF exposed or concerned: Get medical advice and attention.</p>

Section 5 – FIRE FIGHTING MEASURES

<p>Suitable Extinguishing Media</p>	<p>Use extinguishing agent suitable for type of surrounding fire.</p> <p>When dust occurs, use dry sand.</p>
<p>Unsuitable Extinguishing Media</p>	<p>No information available</p>
<p>Specific Hazards in Case of Fire</p>	<p>Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.</p>
<p>Specific Fire Fighting</p>	<p>Fight fire from upwind position if possible</p> <p>Keep away from sources of ignition and use appropriate extinguishing media.</p> <p>Prohibit unauthorized staff from entering the area around the fire.</p> <p>Keep unnecessary people away.</p>
<p>Special Protective Equipment and Precautions for Fire</p>	<p>Use goggles in combination with dust mask, and another protections as appropriate to situation.</p>

Section 6 – ACCIDENTAL RELEASE MEASURES

<p>Personal Precautions, Protective Equipment and Emergency Procedures</p>	<p>Use goggles in combination with dust mask, and another protections as appropriate to situation.</p>
<p>Environmental Precautions</p>	<p>Large spills :Evacuate area.</p> <p>Ensure adequate ventilation.</p> <p>Do not discharge into the drains, surface waters or ground water directly.</p>
<p>Methods and Equipment for Containment and Cleaning Up</p>	<p>Sweep or vacuum spills to drums or containers.</p>
<p>Prevention Measures for Secondary Accidents</p>	<p>Keep away from sources of ignition and prepare extinguishing media.</p>

Section 7 – HANDLING AND STORAGE

<p>Handling</p>	<p>Technical Measures</p>	<p>Please comply with this section and the contents of this product IFU.</p> <p>Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".</p> <p>Use local exhaust ventilation in case of production of fume or mist.</p> <p>Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.</p>
	<p>Precautions for Safe Handling</p>	<p>Do not eat, drink or smoke when using this product.</p> <p>Wash hands thoroughly after handling.</p>

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

	Prevents Handling of Incompatible Substances or	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/m ³ (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.
	Eye/Face Protection	Wear eye protection/face protection.
	Skin and Body Protection	Wear protective clothing.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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
Particle Characteristics		No data available

Section 10 – STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions of use.
Chemical Stability	Stable under normal conditions of use.
Possibility of Hazardous Reaction	Under normal conditions of use, no dangerous reaction is known.
Conditions to Avoid	No information available
Incompatible Substances or Mixtures	No information available
Hazardous Decomposition Products	No information available

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	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
Skin Corrosion/Irritation		Classification not possible
Serious Eye Damage/Eye Irritation		Classification not possible
Respiratory Sensitization		Unable to classify
Skin Sensitization		Unable to classify
Germ Cell Mutagenicity		Category 2
Carcinogenicity		Category 1A
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
Specific Target Organ Toxicity (Repeated Exposure)		Category 1(respiratory apparatus) Category 1(kidney) Category 1(immunological system)
Aspiration Hazard		Classification not possible

Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	Classification not possible
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 Layer	Unable to classify

Section 13 – DISPOSAL CONSIDERATIONS

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 and Packaging	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	Not regulated
	Marine Pollutant Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, the IBC Code	Not applicable Applicable
Regulations in Japan	Regulatory Information by Air	Not regulated
	Regulatory Information by Road	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 Applicable
Emergency Response Guide Number	Regulatory Information by Air	Not regulated
		None

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	Described in item 1
Other Property	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.