

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.

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. in case of fine powder Sweep or vacuum spills to drums or containers. Prevent dispersion of dust. in case of fine powder Use explosion-proof electrical equipment and prevent from static electrocity.
Prevention Measures for Secondary Accidents	Keep away from sources of ignition and prepare extinguishing media. Risk of slipping. Spilled material forms slippery floor. Do not recklessly walk on the spillage.

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.
	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 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.
		Use explosion-proof electrical equipment and prevent from static electricity.
Personal Protective Equipment	Respiratory Protection	If necessary, wear respiratory protection.
	Hand Protection	If necessary, wear protective gloves.
	Eye/Face Protection	If necessary, wear protective eye protection.
	Skin and Body Protection	If necessary, wear protective clothing.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State		solid
Form		solid (powder)
Colour		White
Odour		Odorless
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	Not applicable
	Upper Limit	Not applicable
Flash Point		No data available
Auto-Ignition Temperature		Product is not selfigniting.
Decomposition Temperature		No data available
pH		Not applicable
Kinematic Viscosity		No data available
Solubility		Insoluble in water
Partition Coefficient : n-Octanol/Water		No data available
Vapour Pressure		Not applicable
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		No information available
Conditions to Avoid Incompatible Substances or Mixtures		No information available Acid
Hazardous Decomposition Products		No information available

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	Oral	Unable to classify
	Dermal	Unable to classify
	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	Unable to classify
Carcinogenicity	Classification not possible
Reproductive Toxicity	(Reproductive toxicity)
	Unable to classify
	(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	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	Not applicable
	Liquid Substance	Not applicable
	Transported in Bulk	
	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	Not applicable
	Transported in Bulk	
	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	GC Fuji ORTHO LC CAPSULE Liquid
Product Code	210224-8
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.

Prohibition of use of glass ionomer cement, methacrylate-based polymers, and methacrylate-based monomers in patients with a history of hypersensitivity symptoms such as rash and dermatitis.

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
 Skin corrosion/irritation Category 1
 Serious eye damage/eye irritation Category 1
 Skin sensitization Category 1
 Other hazards than mentioned above are Not classified or Classification not possible.

GHS Label Elements

Pictograms



Signal Word Danger

Hazard Statements H314 Causes severe skin burns and eye damage
 H317 May cause an allergic skin reaction

Precautionary Statements

Prevention Do not breathe
 dust/fume/gas/mist/vapours/spray.(P260)
 Avoid breathing
 dust/fume/gas/mist/vapours/spray.(P261)
 Wash hand 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 SWALLOWED: Rinse mouth. Do NOT induce
 vomiting.(P301+P330+P331)
 IF ON SKIN: Wash with plenty of soap and
 water.(P302+P352)
 IF ON SKIN or hair: Take off immediately all
 contaminated clothing. Rinse skin with water or
 shower.(P303+P361+P353)
 IF INHALED: Remove person to fresh air and keep
 comfortable for breathing.(P304+P340)
 IF IN EYES: Rinse cautiously with water for several
 minutes. Remove contact lenses, if present and easy
 to do. Continue rinsing.(P305+P351+P338)

Immediately call a doctor.(P310)
 Specific treatment.(P321)
 If skin irritation or rash occurs: Get medical
 advice/attention.(P333+P313)
 Take off contaminated clothing and wash it before
 reuse.(P362+P364)
 Wash contaminated clothing before reuse.(P363)
 Store locked up.(P405)

Storage

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	Confidential	Confidential
Distilled water	Confidential	Confidential	Confidential	Confidential	Confidential
2-Hydroxyethylmethacrylate	Confidential	Confidential	Confidential	Confidential	Confidential
Initiator	Confidential	Confidential	Confidential	Confidential	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 of contaminated clothing and wash before re-use.
If skin irritation or rash occurs, get medical advice and attention.
Specific treatment.

Eye Contact Immediately call a doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion Rinse mouth.
IF SWALLOWED: Call a doctor if you feel unwell.

Do NOT induce vomiting.

Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use extinguishing agent suitable for type of surrounding fire.
When dust occurs, use dry sand.
No information available

Unsuitable Extinguishing Media

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.

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.

Large spills :Evacuate area.

Environmental Precautions
 Methods and Equipment for Containment and Cleaning Up

Ensure adequate ventilation.
 Do not discharge into the drains, surface waters or ground water directly.
 Large spills :Evacuate area.

Large spills: Dike spills and dispose of in safe area.

small spill : absorb with material such as non-combustible material wash thoroughly after handling

Cautiously neutralize with dry soda ash and slaked lime if necessary.

Prevention Measures for Secondary Accidents

Keep away from sources of ignition and prepare extinguishing media.

Risk of slipping. Spilled material forms slippery floor.

Do not recklessly walk on the spillage.

Section 7 – HANDLING AND STORAGE

Handling	Technical Measures	<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>
	Precautions for Safe Handling	<p>Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Contaminated work clothing should not be allowed out of the workplace.</p> <p>Do not breathe dust/mist</p>
	Prevents Handling of Incompatible Substances or	Refer to "Section 10 – STABILITY AND REACTIVITY".
Storage	Conditions for Safe Storage	<p>Store locked up.</p> <p>Refer to "Section 10 – STABILITY AND REACTIVITY".</p>

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		<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>
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	If necessary, wear protective clothing.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
----------------	--------

Form		liquid
Colour		Light yellow
Odour		Odorless
Melting Point/Freezing Point		No data available
Boiling Point or Initial Boiling Point and Boiling Ranges		No data available
Flammability		Not applicable
Lower and Upper Explosion Limit / Flammability Limit	Lower Limit	Not applicable
	Upper Limit	Not applicable
Flash Point		No data available
Auto-Ignition Temperature		Product is not selfigniting.
Decomposition Temperature		No data available
pH		1-2
Kinematic Viscosity		No data available
Solubility		Insoluble in water
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		See Possibility of Hazardous Reaction.
Chemical Stability		Stable under normal conditions of use.
Possibility of Hazardous Reaction		There is a risk of polymerization due to Conditions to Avoid and contact Incompatible Substances or Mixtures. There is a risk of fire or explosion due to Conditions to Avoid and Incompatible Substances or Mixtures.
Conditions to Avoid		Heat Light
Incompatible Substances or Mixtures		Peroxide
Hazardous Decomposition Products		Irritation smoke and fume

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	Category 1
Serious Eye Damage/Eye Irritation	Category 1
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	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. Since it indicates strong acid, dispose of it after neutralizing with alkali.
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 According to MARPOL 73/78, Annex II, the IBC Code	applicable
Regulations in Japan	Regulatory Information by Air	Not regulated
	Regulatory Information by Road	Complies with the Fire Service Act.
	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.