

Preparation Date 2021/02/15

Safety Data Sheet (SDS)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	GC Fuji ORTHO BAND PASTE PAK A paste
Product Code	201211-1
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's 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	Serious eye damage/eye irritation Category 2A Skin sensitization Category 1 Other hazards than mentioned above are Not classified or Classification not possible.
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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
Methacrylic acid ester	Confidential	Confidential	Confidential	Confidential	Confidential
Dimethacrylate	Confidential	Confidential	Confidential	Confidential	Confidential
Pigment	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 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 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.
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

Technical Measures

Please comply with this section and the contents of this product's 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.

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.

Personal Protective
Equipment

Respiratory
Protection

If necessary, wear respiratory protection.

Hand Protection

Wear protective gloves.

Eye/Face Protection

If necessary,wear protective eye protection.

Skin and Body

If necessary,wear protective clothing.

Protection

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State

the others

Form

paste

Colour

Blue

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	No data available
	Upper Limit	No data available
Flash Point		97°C
Auto-Ignition Temperature		Product is not selfigniting
Decomposition Temperature		No data available
pH		No data available
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) Unable to classify (vapour) Unable to classify (dust and mist) Unable to classify
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	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 Transported in Bulk	Not applicable
	According to MARPOL 73/78, Annex II, the IBC Code	

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	Not applicable
	Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, the IBC Code	Not 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.

Safety Data Sheet (SDS)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	GC Fuji ORTHO BAND PASTE PAK B paste
Product Code	201211-2
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's 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

GHS Label Elements

Carcinogenicity Category 1A
 Specific target organ toxicity (single exposure)
 Category 3 (respiratory tract irritation)
 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.

Pictograms



Signal Word

Danger

Hazard Statements

H314 Causes severe skin burns and eye damage
 H335 May cause respiratory irritation
 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)
 Avoid breathing
 dust/fume/gas/mist/vapours/spray.(P261)
 Wash hand thoroughly after handling.(P264)
 Do not eat, drink or smoke when using this
 product.(P270)
 Use only outdoors or in a well-ventilated area.(P271)

Response

Wear protective gloves/protective clothing/eye
 protection/face protection.(P280)
 IF SWALLOWED: Rinse mouth. Do NOT induce
 vomiting.(P301+P330+P331)
 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)
 IF exposed or concerned: Get medical
 advice/attention.(P308+P313)
 Immediately call a doctor.(P310)
 Call a doctor if you feel unwell.(P312)
 Get medical advice and attention if you feel
 unwell.(P314)
 Specific treatment.(P321)
 Wash contaminated clothing before reuse.(P363)
 Store in a well-ventilated place. Keep container
 tightly closed.(P403+P233)
 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
Initiator	Confidential	Confidential	Confidential	Confidential	Confidential
Silicon dioxide	Confidential	Confidential	Confidential	Confidential	Confidential

Section 4 – FIRST AID MEASURES

Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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

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.

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.

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.

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
Methods and Equipment
for Containment and
Cleaning Up

Large spills :Evacuate area.
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.

Sweep or vacuum spills to drums or containers.
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.

Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

Please comply with this section and the contents of
this product's 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

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye
protection/face protection.

Do not breathe dust/fume/gas/mist/vapours/spray.

Storage

Prevents Handling of
Incompatible
Substances or
Conditions for Safe
Storage

Refer to "Section 10 – STABILITY AND
REACTIVITY".

Store locked up.

Refer to "Section 10 – STABILITY AND
REACTIVITY".

Store container tightly closed 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	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		the others
Form		paste
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	No data available
	Upper Limit	No data available
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		65 g/cm ³ (at 20°C)
Relative Gas Density		No data available
Particle Characteristics		No data available

Section 10 – STABILITY AND REACTIVITY

Reactivity		No information available
Chemical Stability		No information available
Possibility of Hazardous Reaction		No information available
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) Unable to classify

	(vapour) Unable to classify (dust and mist) Unable to classify Category 1
Skin Corrosion/Irritation	
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Unable to classify
Skin Sensitization	Unable to classify
Germ Cell Mutagenicity	Unable to classify
Carcinogenicity	Category 1A
Reproductive Toxicity	(Reproductive toxicity) Unable to classify (Reproductive toxicity, effects on or via lactation)
Specific Target Organ Toxicity (Single Exposure)	Unable to classify Category 3(respiratory tract irritation)
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. 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 Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex II, the IBC Code	Not applicable applicable
	Regulatory Information by Air	Not regulated
Regulations in Japan	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
	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.