SAFETY DATA SHEETS

This SDS packet was issued with item: 072039261

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

071454495 072039220 072039238 072039253 072039501 072039519 072039543 072039600 072039618



GC FUJI IX GP - LIQUID MATERIAL SAFETY DATA SHEET

Page 1 of 2

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 IX GP - LIQUID GC FUJI IX GP CAPSULES - LIQUID GC FUJI IX GP FAST SET GC FUJI IX GP EXTRA CHEMICAL NAME: N.A.

PRODUCT USE: Glass ionomer for Restorative Treatment - liquid component

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	%
Polyacrylic acid	Not listed	TWA=10ppm	D50 = 2500 mg/kg	30-40
		(ACGIH)	(oral rat)	
			LC50=N.E.	
Proprietary Ingredient		TLV=10mg/m ³	N.E.	5-15
		PEL=15mg/m ³		

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT:	101°C	SPECIFIC GRAVITY (H2O = 1):	1.18	
VAPOR PRESSURE:	N.E.	MELTING POINT:	13°C	
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: Colorless, slightly viscous and odorless liquid

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: Not flammable

FLAMMABLE LIMITS: N.A.

EXTINGUISHING MEDIA: Alcohol foam SPECIAL FIRE FIGHTING PROCEDURES: Full protective clothing and self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: None HAZARDOUS COMBUSTION PRODUCTS: Emits acrid smoke when heated beyond boiling point.

SECTION 5 - REACTIVITY DATA

STABILITY: POLYMERIZATION:

Stable 🖂 Will Not Occur Unstable Will Occur

CONDITIONS TO AVOID: High heat INCOMPATIBILITY (Materials to Avoid): Alkali will inactivate product HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N.E.



MS439191

GC FUJI IX GP - LIQUID

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		Х						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY		Х						
SENSITIZER		X						

 $\label{eq:HEALTH HAZARD (Acute and Chronic): Acidic solution (pH=1.90), care should be taken to avoid contact with skin or eyes. \\ \end{subarray} SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E. \\ \end{subarray}$

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 develops seek medical attention. **EYES:** Flush with water for 15 minutes. If irritation develops seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

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.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: None required

VENTILATION:	Local Exhaust: N.A.	Mechanical: N.A.	Special: N.E.	Other: N.A.
PROTECTIVE GLC	DVES: Latex gloves are recomm	mended		
EYE PROTECTION	I: Goggles or full face shield			
OTHER PROTECT	IVE CLOTHING OR EQUIPMENT	: Do not spill on clothing.	Eyewash station.	
WORK/HYGIENIC	PRACTICE: N.E.			

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: _13 December 2006

 REVISED: _23 September 2009

 REVIEWED: _13 March 2012

 N.A. = NOT APPLICABLE

 N.E. = NOT ESTABLISHED

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

 NFPA

 FIRE - 0
 TOXICITY - 1

 REACTIVITY - 0

 SPECIAL - ACID



Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

1 Identification

- · Product identifier
- Trade name: GC Fuji IX GP (Liquid) GC Fuji IX GP CAPSULE (Liquid)

· Relevant identified uses of the substance or mixture and uses advised against

Dental material The product is intended for professional use. To avoid risks for humans and environment obtain instructions.

- · Application of the substance / the mixture Dental filling material
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: GC America Inc. 3737 W. 127th Street Alsip, IL 60803 USA

sds@gcamerica.com

- · Information department: Regulatory Affairs
- · Emergency telephone number:

During normal opening times (Mon.-Fri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900 Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

• Additional information:

The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



· Signal word Danger

- Hazard-determining components of labeling:
- polybasic carboxylic acid** • Hazard statements
- Causes severe skin burns and eye damage.

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Precautionary statements
 Do not breathe dusts or mists.
 Wear eye protection / face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a poison center/doctor.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.
 Classification system:
 NFPA ratings (scale 0 - 4)
 Health = 2
 Fire = 0
 Fire = 0
 Eigen = 0
 Eigen

2 0 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH2Health = 2FIRE0Fire = 0REACTIVITY0Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

polybasic carboxylic acid**

5-10%

· Additional information:

If a substance is marked with **, then substance is a trade secret. This is allowed under OSHA's Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Business Information (CBI).

4 First-aid measures

Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product. If symptoms persist consult doctor.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly. Seek medical treatment.

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• After eye contact: Protect unharmed eye. Rinse opened eye for several minutes under running water. Call a doctor immediately.

• After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Remove persons from danger area. Avoid contact with the eyes and skin. Wear protective clothing.
· Environmental precautions:
Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.
Methods and material for containment and cleaning up:
Use neutralizing agent.
Absorb liquid components with liquid-binding material.
Dispose of the collected material according to regulations.
Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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7 Handling and storage

· Handling:

- · Precautions for safe handling
- Observe instructions for use.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid contact with the eyes and skin.

- · Information about protection against explosions and fires: No special measures required.
- · Storage:
- **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Observe instructions for use / storage. Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

- Breathing equipment: Suitable respiratory protective device recommended.
- · Protection of hands: Protective gloves
- · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Safety glasses

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hemical properties Fluid Light yellow Odorless Not determined.
Light yellow Odorless
Light yellow Odorless
Odorless
Not determined.
1.9
1.8
Undetermined. Undetermined.
Not applicable.
Not applicable.
Undetermined.
Not determined.
Product is not selfigniting.
Product does not present an explosion hazard.
Not determined.
Insoluble.
r): Not determined.
Not determined.
Not determined.
0.0 %
50.0 %
100.0 %

10 Stability and reactivity

· Reactivity No further relevant information available.

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Trade name: GC Fuji IX GP (Liquid) GC Fuji IX GP CAPSULE (Liquid)

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· Chemical stability Stable at ambient temperature.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification: No further relevant information available.
- · Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- [·] on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)
- poly(acrylic acid)

• NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Carcinogenic categories' legend:

IARC Group 1: The agent is carcinogenic to humans.

IARC Group 2A: The agent is probably carcinogenic to humans.

IARC Group 2B: The agent is possibly carcinogenic to humans.

IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.

IARC Group 4: The agent is probably not carcinogenic to humans.

NTP K: Known to be human carcinogen.

NTP R: Reasonably anticipated to be human carcinogen.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

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· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

• Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name		
DOT, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	Void	
Packing group		
DOT, ADR, IMDG, IATA	Void	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	(II of	
MARPOL73/78 and the IBC Code	Not applicable.	

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15 Regulatory information

 $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ SARA (Superfund Amendments and Reauthorization Act)

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



- · Signal word Danger
- **Hazard-determining components of labeling:** polybasic carboxylic acid**
- · Hazard statements
- Causes severe skin burns and eye damage.
- · Precautionary statements
- Do not breathe dusts or mists.

Wear eye protection / face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations. **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

· Department issuing MSDS: Regulatory Affairs

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· Contact:	
Regulatory Affairs	
Telephone No. +1 (708) 597-0900	
sds@gcamerica.com	
Date of preparation / last revision 02/24/2015 / -	
· Abbreviations and acronyms:	
GHS: Globally Harmonized System of Classification and Labelling of Chemicals	
HCS: Hazard Communication Standard (USA)	
MSDS: Material Safety Data Sheet	
SDS: Safety Data Sheet	
ADN: Accord européen relatif au transport international des marchandises dangereuses par voies de na	avigation intérieures
(European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways)	0
ECHA: European Chemicals Agency	
OSHA: Occupational Safety and Health Administration (USA)	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreem	ent concerning the
International Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A	
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1	
Sources	
Manufacturers' MSDSs/SDSs	
 OSHA (https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html) 	
TOXNET (http://toxnet.nlm.nih.gov/)	
ECHA (http://echa.europa.eu/)	
EnviChem (www.echemportal.org)	
· Notes:	
CAS Registry Number is a Registered Trademark of the American Chemical Society.	
CHEMTREC® is a registered service mark of the American Chemistry Council, Inc.	
• * Data compared to the previous version altered. This version replaces all previous v	ersions.
· Disclaimer:	
The information contained herein is believed to be true and accurate. However,	all statements
The memorial contained herein to believed to be true and decurate. However,	an otatomonto,

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