SAFETY DATA SHEETS

This SDS packet was issued with item: 073259298

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

073259215 073259223 073259231 073259249 073259256 073259264 073259272 073259280 073259306 073259314 073259322 073259330 073259538 073259686

,'GC,'

MS438022

GC FUJI II LC (IMPROVED) - POWDER 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 II LC (IMPROVED) - POWDER GC FUJI II LC (IMPROVED) CAPSULES - POWDER CHEMICAL NAME: N.A.

PRODUCT USE: Light-cured glass ionomer liner for dental cavity preparations. (Powder component).

The following information is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Alumino-fluoro-silicate glass	Not listed	TLV=10mg/m ³	N.E.	95-100
(amorphous)		PEL=15mg/m ³		
		(ACGIH)		

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: N.E.	SPECIFIC GRAVITY (H2O = 1):	2.56
VAPOR PRESSURE: N.E.	MELTING POINT:	>1,350°C
VAPOR DENSITY: N.E.	EVAPORATION RATE:	N.E.
SOLUBILITY IN WATER: Insoluble	ODOR THRESHOLD:	N.E.
COFFEICIENT OF OIL WATER DISTRIBUTION · N E		

COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.

APPEARANCE AND ODOR: Very fine white powder, Core material is light blue in color

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: Not flammable

FLAMMABLE LIMITS: N.A.

EXTINGUISHING MEDIA: Material is not combustible. Use extinguishing media appropriate to the surrounding area.

SPECIAL FIRE FIGHTING PROCEDURES: N.A.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N.E.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide

SECTION 5 - REACTIVITY DATA

STABILITY: POLYMERIZATION: Stable X Will Not Occur X Unstable 🗌 Will Occur 🗌

CONDITIONS TO AVOID: Avoid high temperatures and humidity

INCOMPATIBILITY (Materials to Avoid): N.E.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No decomposition if used or stored according to specifications.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

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



MS438022	GC	FUJI II LC (IMPI	roved) - Powder	Page 2 of 2	
SECTION 6 - H	EALTH HAZARD DATA and	FIRST AID INFORM	ATION - continued		
ROUTES OF ENTI	RY: Inhalation	Skin	Ingestion		
HEALTH HAZARD (Acute and Chronic): Dusts of silica glass is a known cause of silicosis, a non-cancerous lung disease. SIGNS AND SYMPTOMS OF OVEREXPOSURE: Irritation and soreness in throat and nose. CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May aggravate preexisting upper respiratory and lung disease.					
INHALATIO INGESTION SKIN: Was	ST AID PROCEDURES: <i>DN:</i> Remove to fresh air, drin <i>I:</i> Ingestion may require med sh with soap and water. sh with large quantities of w	dical assistance.			
SECTION 7 - PI	RECAUTIONS FOR SAFE H	ANDLING AND USE			
	EASE OR SPILL: Avoid generation of the second secon		ing. If an excessive amount	of dust is generated use a filter	
WASTE DISPOSA	L METHOD: In accordance w	vith local, state and fede	eral regulations.		
STORAGE, HAND	LING, AND SPECIAL PRECAU	TIONS: Store at norma	l room temperatures and hu	midity.	
SECTION 8 - CO	ONTROL MEASURES				
	ROTECTION : Minimize exponent		nce with good hygiene pract	ice. If needed, use MSHA-NIOSH	
VENTILATION:	Local Exhaust: Yes	Mechanical: Yes	Special: N.A.	Other: N.A.	
EYE PROTECTION OTHER PROTECT	OVES: Disposable vinyl glov N: Safety glasses FIVE CLOTHING OR EQUIPME PRACTICE: Follow safe hyg	NT: Eyewash station			
SECTION 9- PR	REPARATION INFORMATI	ON			
This data is suppli	ed to comply with OSHA Hazar	d Communication Standa	rd 29 CFR 1910,1200 and W.H	I.M.I.S. CPR	
DATE: <u>09 January 2006</u> REVISED: <u>12 March 2012</u>					
N.A. = NOT APP N.E. = NOT EST					
The information herein is given in good faith but no warranty expressed or implied is made.					
		NFP	A	SDECIAL	
FIRE – 0	TOXICIT	1 – 1	REACTIVITY – 0	SPECIAL –	



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Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

1 Identification

- · Product identifier
- Trade name: GC Fuji II LC (Improved, Powder, Shades: A1, A2, A3, A3.5, A4, B2, B3, B4, C2, and C4)

GC Fuji II LC CAPSULE (Improved, Powder, Shades: A1, A2, A3, A3.5, A4, B2, B3, B4, C2, and C4)

• 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 The product is not classified according to the Clobally Harmonized S

The product is not classified according to the Globally Harmonized System (GHS).

· 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 Void
- · Hazard pictograms Void
- · Signal word Void
- Hazard statements Void
- · Classification system:
- NFPA ratings (scale 0 4)



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Trade name: GC Fuji II LC (Improved, Powder, Shades: A1, A2, A3, A3.5, A4, B2, B3, B4, C2, and C4) GC Fuji II LC CAPSULE (Improved, Powder, Shades: A1, A2, A3, A3.5, A4, B2, B3, B4, C2, and C4)

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

HEALTH 0	Health = 0
FIRE 0	Fire = 0
REACTIVITY 0	Reactivity = 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: Void
- 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:

No special measures required.

- 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:

Rinse with warm water.

If symptoms persist consult doctor.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. • 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.

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Version US-EN-Rev 1

Reviewed on 02/24/2015

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(Contd. of page 2)

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.
- · Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

• Methods and material for containment and cleaning up: Pick up mechanically.

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.

7 Handling and storage

- · Handling:
- Precautions for safe handling

Observe instructions for use.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

· Information about protection against explosions and fires:

Dust can combine with air to form an explosive mixture.

- · 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.

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Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

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• 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

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- **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. Do not inhale dust / smoke / mist.
- Wash hands before breaks and at the end of work.
- · 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

Information on basic physical and General Information Appearance:	l chemical properties	
Form:	Powder	
Color:	White	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	

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	(Contd. of page
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Insoluble.
Partition coefficient (n-octanol/	water): Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Organic solvents:	0.0 %
Solids content:	100.0 %
Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

· 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.

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(Contd. of page 5)

· Primary irritant effect:

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- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

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

None of the ingredients is listed.

· 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.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

- 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: Smaller quantities can be disposed of with household waste.

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· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

14 mansport information	
· 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.
· UN "Model Regulation":	-

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture • 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):

glass, oxide, chemicals

silane**

· 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.

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

None of the ingredients is listed.

· GHS label elements Void

· Hazard pictograms Void

Signal word Void

· Hazard statements Void

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

 Department issuing MSDS: Regulatory Affairs · 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 navigation intérieures (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways) ECHA: European Chemicals Agency OSHA: Occupational Safety and Health Administration (USA) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement 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 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 versions. · Disclaimer: The information contained herein is believed to be true and accurate. However, all statements, recommendations or suggestions are made without any guarantee, representation or warranty, express or implied, on our part. Therefore, no warranty is made or to be implied that the information set out in

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- USA

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	and C4)	proved, Powder, Shades: A1, A2, A3 PSULE (Improved, Powder, Shades	
ſ	this document is accurate or	complete and we accordingly exclude a	(Contd. of page 8)

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USA