SAFETY DATA SHEETS

This SDS packet was issued with item: 072039170

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).

071454735 071454743 071454750 071454768 071454776 072038909 072038917 072038925 072038933 072038941 072038958 072038966 072038974 072038982 072038990 072039006 072039014 072039105 072039113 072039121 072039139 072039147 072039154 072039162 072039188 072039196 072039204 073259207 073259298 073259306 073260403 073260411 073260429 073260437 073260445 073260452 073260460 073260478 073260486 073260494



GC FUJI II LC (IMPROVED) - 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 II LC (IMPROVED) - LIQUID GC FUJI II LC (IMPROVED) CAPSULES - LIQUID

CHEMICAL NAME: N.A.

PRODUCT USE: Light-cured glass ionomer for dental cavity preparations. (Liquid 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	%
Polyacrylic acid	Not listed	TWA=10ppm	LD50 = 2500 mg/kg	20-25
		(ACGIH)	(oral rat)	
			LC50 = N.E.	
2-Hydroxyethyl methacrylate	Not listed	N.E.	LD50=5888mg/kg	30-35
			(oral rat)	
			LC50=N.E.	
Proprietary Ingredient		TLV=10mg/m ³	N.E.	5-15
		PEL=15mg/m ³		
2,2,4, Trimethyl	Not listed	N.E.	N.E.	1-5
hexamethylene dicarbonate				

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/W	ATER DISTRIBUTION: N.E.		

APPEARANCE AND ODOR: Colorless, slightly viscous and odorless liquid

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: N.E.

FLAMMABLE LIMITS: N.A.

EXTINGUISHING MEDIA: Alcohol foam, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Full protective clothing and self-contained breathing apparatus. **UNUSUAL FIRE AND EXPLOSION HAZARDS:** N.E.

HAZARDOUS COMBUSTION PRODUCTS: Emits acrid smoke when heated beyond boiling point.

SECTION 5 - REACTIVITY DATA

STABILITY: POLYMERIZATION: Stable 🖂 Will Not Occur 🖂 Unstable

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



MS438051

GC FUJI II LC (IMPROVED) - LIQUID

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						
		•	·	•	_	_	•	•
OUTES OF ENTRY: Inhalatio	n 🖂	Sk	in 🖂		Ingestion 🛛			

HEALTH HAZARD (Acute and Chronic): Mildly toxic by all routes. Acidic solution (pH=1.90), care should be taken to avoid contact with skin or eyes.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E.

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 - C	CONTROL MEASURES			
RESPIRATORY F	PROTECTION: None required			
VENTILATION:	Local Exhaust: N.A.	Mechanical: N.A.	Special: N.E.	Other: N.A.
EYE PROTECTIC OTHER PROTEC	LOVES: Latex gloves are record DN: Goggles or full face shield CTIVE CLOTHING OR EQUIPMEN C PRACTICE: Follow good hygo	l IT: Do not spill on clothir	ng. Eyewash station	
SECTION 9- P	REPARATION INFORMATIC	DN		
This data is supp	lied to comply with OSHA Hazard	l Communication Standard	29 CFR 1910,1200 and W.H.M	1.I.S. CPR
	uary 2006 3 September 2009 21 February 2012			
N.A. = NOT API N.E. = NOT EST				

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

				•••••
		NFPA		
FIRE – 1	TOXICITY – 1	REACTIVITY – 0	SPECIAL – ACID	

,'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 I	FUJI II LC (IMPRO	oved) - Powder	Page 2 of 2
SECTION 6 - HE	EALTH HAZARD DATA and	FIRST AID INFORMA	FION - continued	
ROUTES OF ENTR	RY: Inhalation 🖂	Skin	Ingestion	
SIGNS AND SYMP	(Acute and Chronic): Dusts of PTOMS OF OVEREXPOSURE: IERALLY AGGRAVATED BY E	Irritation and soreness ir	throat and nose.	-
INHALATIO INGESTION SKIN: Was	ST AID PROCEDURES: <i>N:</i> Remove to fresh air, drint <i>I:</i> Ingestion may require med th with soap and water. sh with large quantities of wa	ical assistance.		
SECTION 7 - PR	RECAUTIONS FOR SAFE H	ANDLING AND USE		
	ASE OR SPILL: Avoid gener and MSHA/NIOSH approv		g. If an excessive amount	of dust is generated use a filter
WASTE DISPOSA	L METHOD: In accordance w	ith local, state and federa	l regulations.	
STORAGE, HAND	LING, AND SPECIAL PRECAU	TIONS: Store at normal r	oom temperatures and hun	nidity.
SECTION 8 - CO	ONTROL MEASURES			
	ROTECTION: Minimize expositor for dusts, mists and fume		e with good hygiene pract	ce. If needed, use MSHA-NIOSH
VENTILATION:	Local Exhaust: Yes	Mechanical: Yes	Special: N.A.	Other: N.A.
EYE PROTECTION OTHER PROTECT	DVES: Disposable vinyl glov N: Safety glasses TVE CLOTHING OR EQUIPMEN PRACTICE: Follow safe hygi	IT: Eyewash station		
SECTION 9- PR	EPARATION INFORMATIO	DN		
This data is supplie	ed to comply with OSHA Hazard	l Communication Standard	29 CFR 1910,1200 and W.H.	M.I.S. CPR
DATE: <u>09 Janua</u> REVISED: <u>12</u>				
N.A. = NOT APPI N.E. = NOT ESTA				
U U	erein is given in good faith but n		•	
FIRE – 0	TOXICITY	NFPA	EACTIVITY – 0	SPECIAL –
-			-	



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Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

2/24/2015

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 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)



(Contd. on page 2)

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Version US-EN-Rev 1

Reviewed on 02/24/2015

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	
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.

(Contd. on page 3)

LISA

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

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 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.

(Contd. on page 4)

(Contd. of page 3)

Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

Version US-EN-Rev 1

Reviewed on 02/24/2015

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)

• 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

Printing date 02/24/2015

- 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 	chemical properties	
Appearance:		
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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Version US-EN-Rev 1

Reviewed on 02/24/2015

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
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/w	vater): 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.

(Contd. on page 6)

Printing date 02/24/2015 Version US-EN-Rev 1 Reviewed on 02/24/2015 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 5) · Primary irritant effect: 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.

(Contd. on page 7)

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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 6)

· Uncleaned packagings:

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

14 Transport 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 	f 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.

(Contd. on page 8)

Printing date 02/24/2015

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Reviewed on 02/24/2015

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 7)

· 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

(Contd. on page 9)

USA

Printing date 02/24/2015	Version US-EN-Rev 1	Reviewed on 02/24/2015
and C4)	roved, Powder, Shades: A1, A2, A3 SULE (Improved, Powder, Shades:	
this document is accurate or o	complete, and we accordingly exclude a	(Contd. of page 8) Il liability in connection with the use

this document is accurate or complete, and we accordingly exclude all liability in connection with the use of this information or the products referred to herein. All such risks are assumed by the purchaser/user. The information contained herein is also subject to change without notice. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.

USA



Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

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		00	

- · Product identifier
- Trade name: GC Fuji II LC (Improved, Liquid) GC Fuji II LC CAPSULE (Improved, 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.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· 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



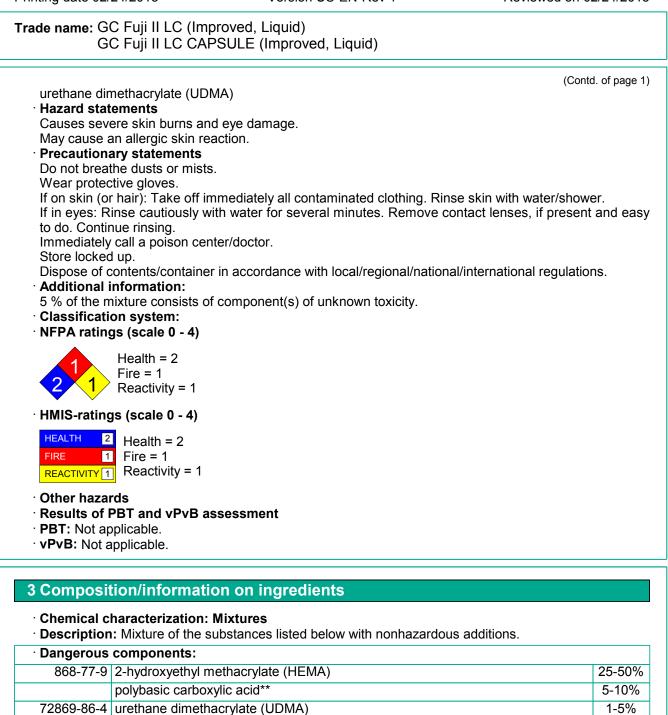
- · Signal word Danger
- Hazard-determining components of labeling:
 2-hydroxyethyl methacrylate (HEMA) polybasic carboxylic acid**

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dimethacrylate**

· 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).

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1-5%

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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.
- 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 Allergic reactions
- 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.	
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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. 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.

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• 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

	Color:	Liquid
Form:LiquidColor:Light yellowOdor:OdorlessOdor treshold:Not determined.pH-value at 20 °C (68 °F):1.9Change in conditionUndetermined.Metting point/Melting range:Undetermined.Boiling point/Boiling range:Undetermined.Flash point:Not applicable.Flammability (solid, gaseous):Not applicable.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:Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Vapor pressure:Not determined.Vapour densityNot determined.Vapour densityNot determined.Solubility in / Miscibility withInsoluble.Partition coefficient (n-octanol/water): Not determined.Viscosity:Not determined.<	Form: Color:	Liquid
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Viscosity: Dynamic: Not determined.		
Dynamic: Not determined.		·
	•	Not determined.
		Not determined.
Solvent content:		
Organic solvents: 0.0 % Water: 24.9 %		

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Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

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• 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.
- 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: Sensitization possible through skin contact.
- 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)	3
butylated hydroxytoluene (BHT)	3
· 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. 	

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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 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	

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Special precautions for user

Not applicable.

Not applicable.

 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

· UN "Model Regulation":

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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):

All ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

butylated hydroxytoluene (BHT)

· 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:
2-hydroxyethyl methacrylate (HEMA) polybasic carboxylic acid** urethane dimethacrylate (UDMA)
Hazard statements Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Precautionary statements Do not breathe dusts or mists.
Wear protective gloves. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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(Contd. of page 8) 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

· 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 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

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

- Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- Skin Sens. 1: Sensitisation Skin, 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 versions.

· Disclaimer:

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our negligence or for fraudulent misrepresentation.

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