SAFETY DATA SHEETS

This SDS packet was issued with item: 073261336

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).

073261286 073261294 073261302 073261310 073261328 073261344 073261518 073261526 073261534



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 No. 800-424-9300

COMMON NAME:GC FUJI FILLING LC – PASTE BCHEMICAL NAME:N.A.PRODUCT USE:Light cured glass ionomer cement

The following information is provided with regard to the toxicity and hazards the pure components present in this product. **SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Distilled water	7732-18-5	N.E.	N.E.	20-30%
Polyacrylic acid	9003-01-4	TWA=10ppm	LD50 = 2500mg/kg	20-30%
		(ACGIH)	(oral rat)	
			LC50 = N.E.	
Urethanedimethacrylate	72869-86-4	N.E.	N.E.	12-15%
Silicon dioxide (fumed/amorphous)	112945-52-5	PEL 6mg/m ³	LD50:>10000mg/kg	10-15%
		TLV 10mg/m^3	(oral rat)	

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT:	100°C	SPECIFIC GRAVITY:	N.E.
VAPOR PRESSURE:	N.E.	MELTING POINT:	N.E.
VAPOR DENSITY:	N.E.	EVAPORATION RATE:	N.E.
SOLUBILITY IN WATER	: Not miscible or difficult to mix	ODOR THRESHOLD:	N.E.
	VATER DISTRIBUTION: N.E.	APPEARANCE AND ODOR:	paste with characteristic odor

SECTION 4 - FIRE AND EXPLOSION DATA

 FLASH POINT: N.A.
 FLAMMABLE LIMITS: N.A.

 EXTINGUISHING MEDIA: Chemical foam, carbon dioxide and dry chemical.

 SPECIAL FIRE FIGHTING PROCEDURES: No special measures required.

 UNUSUAL FIRE AND EXPLOSION HAZARDS: N.E.

 HAZARDOUS COMBUSTION PRODUCTS: N.E.

SECTION 5 - REACTIVITY DATA

STABILITY: Stable

Unstable

POLYMERIZATION: Will Not Occur

Will Occur

CONDITIONS TO AVOID: Keep away from high heat and humidity. INCOMPATIBILITY (Materials to Avoid): None. HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known.

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						



MS002475 GC FUJI FILLING LC – PASTE B Page 2 of 2 SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION - continued ROUTES OF ENTRY: Inhalation Skin Ingestion Skin Ingestion Skin ROUTES OF ENTRY: Inhalation May cause irritation to eyes, respiratory tract and skin. Signs AND SYMPTOMS OF OVEREXPOSURE: N.E. CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E. EMERGENCY FIRST AID PROCEDURES: INHALATION: Supply fresh air. Seek medical attention if irritation develops. Signs and symptoms of our set of the set of t

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Seek medical attention if irritation develops.

SKIN CONTACT: Wash skin with plenty of water for at least 15 minutes. Seek medical attention if irritation develops. *INGESTION:* Do not induce vomiting. Seek medical attention if irritation develops.

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), and place in a chemical waste container.

WASTE DISPOSAL METHOD: Do not allow product to reach sewage system or any watercourse. Dispose of in accordance with local, state and federal guidelines.

STORAGE, **HANDLING**, **AND SPECIAL PRECAUTIONS**: Store at room temperature in closed container when not in use.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer use self-contained respiratory protective device.

VENTILATION: Local Exhaust Recommended Mechanical:

Special:		
----------	--	--

Other:

PROTECTIVE GLOVES: Synthetic/vinyl gloves recommended. **EYE PROTECTION:** Use tightly sealed goggles to prevent eye contact. **OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eye was station recommended. **WORK/HYGIENIC PRACTICE:** Observe good hygienic work practices.

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: REVISED: _	15 February 2006 09 March 2012	-		
	APPLICABLE ESTABLISHED			
The informati	on herein is given in good faith but	no warranty expressed or i	mplied is made.	
		NFPA		·····
FIRE -	- 1 TOXICIT		REACTIVITY – 1	SPECIAL -



Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/19/2015

- · Product identifier
- Trade name: GC Fuji Filling LC (Paste A, Shades: A1, A2, A3, A3.5, CV, and Blue)

 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

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

- Acute Tox. 4 H332 Harmful if inhaled.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

· 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



(Contd. on page 2)

US

1-5%

< 1% (Contd. on page 3)

US

Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

Printing date 04/20/2015

initiator**

1309-37-1 iron(III) oxide

Version US-EN-Rev 1

Reviewed on 04/19/2015

Trade name: GC Fuji Filling LC (Paste A, Shades: A1, A2, A3, A3.5, CV, and Blue)

.		ontd. of page 1)
Signal wor	d Danger	
Hazard-det	ermining components of labeling:	
2-hydroxyet	hyl methacrylate (HEMA)	
initiator**		
dimethacryl		
	droxytoluene (BHT)	
Hazard stat		
	wallowed, in contact with skin or if inhaled.	
Causes skir		
	ious eye irritation. allergy or asthma symptoms or breathing difficulties if inhaled.	
	an allergic skin reaction.	
	respiratory irritation.	
	ary statements	
	ed work clothing must not be allowed out of the workplace.	
	nadequate ventilation] wear respiratory protection.	
Avoid breat	ning dust/fume/gas/mist/vapors/spray	
	tinse cautiously with water for several minutes. Remove contact lenses, if prese	nt and easy
to do. Conti		
Store locked	· · · · · · · · · · · · · · · · · · ·	
	contents/container in accordance with local/regional/national/international regulat	ions.
	information:	
	e mixture consists of component(s) of unknown toxicity.	
Classificati	gs (scale 0 - 4)	
	Health = 2	
	Fire = 1	
	Reactivity = 1	
HMIS-rating	gs (scale 0 - 4)	
HEALTH 2	Health = 2	
FIRE 1		
REACTIVITY 1		
Other haza		
	PBT and vPvB assessment	
PBT: Not a		
vPvB: Not a	applicable.	
Composi	tion/information on ingredients	
composi		
Chemical c	haracterization: Mixtures	
Description	a: Mixture of the substances listed below with nonhazardous additions.	
•	components:	
-	2-hydroxyethyl methacrylate (HEMA)	10-20%
000-77-9		
	dimethacrylate**	1-5%
72869-86-4	urethane dimethacrylate (UDMA)	1-5%
	· · · · · · · · · · · · · · · · · · ·	4 = 0 /

(Contd. of page 2)

< 0.5%

< 0.5%

Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/19/2015

Trade name: GC Fuji Filling LC (Paste A, Shades: A1, A2, A3, A3.5, CV, and Blue)

photoinitiator**

128-37-0 butylated hydroxytoluene (BHT)

• 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 or oxygen; call for doctor.

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

Do not use mouth to mouth or mouth to nose resuscitation.

- 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. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help. Rinse out mouth and then drink plenty of water.
- 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.

(Contd. on page 4)

US

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/19/2015

Trade name: GC Fuji Filling LC (Paste A, Shades: A1, A2, A3, A3.5, CV, and Blue)

(Contd. of page 3) Avoid contact with the eyes and skin. Wear protective clothing. · 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: Ensure adequate ventilation. 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.

7 Handling and storage

· Handling:

· Precautions for safe handling

Observe instructions for use.

Ensure good ventilation/exhaustion at the workplace.

Do not inhale dust / smoke / mist.

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.
- **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:

initiator**

TLV Long-term value: 0.1 mg/m³

as Persulfates

• 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.

(Contd. on page 5)

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/19/2015

Trade name: GC Fuji Filling LC (Paste A, Shades: A1, A2, A3, A3.5, CV, and Blue)

(Contd. of page 4)

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

Information on basic physical and	chemical properties
General Information	
Appearance: Form:	Pasty
Color:	According to product specification
Odor:	Odorless
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting 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:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Insoluble.

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/19/2015

Trade name: GC Fuji Filling LC (Paste A, Shades: A1, A2, A3, A3.5, CV, and Blue)

		(Contd. of page
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Solids content:	82.8 %	
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: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

Additional toxicological information:

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

· Carcinogenic categories

 IARC (International Agency for Research on Cancer) 	
silicon dioxide, amorphous	3
iron(III) oxide	3
antimony nickel titanium oxide yellow	3
titanium dioxide	2B
cobalt aluminate blue spinel	2B
butylated hydroxytoluene (BHT)	3
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
	(Contd. on page 7)

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/19/2015

Trade name: GC Fuji Filling LC (Paste A, Shades: A1, A2, A3, A3.5, CV, and Blue)

(Contd. of page 6)

· 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:

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	

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/19/2015

Trade name: GC Fuji Filling LC (Paste A, Shades: A1, A2, A3, A3.5, CV, and Blue)

		(Contd. of page 7)
· 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 MARPOL73/78 and the IBC Code 	II of 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):	
cobalt aluminate blue spinel	
· TSCA (Toxic Substances Control Act):	
glass, oxide, chemicals	
2-hydroxyethyl methacrylate (HEMA)	
dimethacrylate**	
urethane dimethacrylate (UDMA)	
initiator**	
iron(III) oxide	
antimony nickel titanium oxide yellow	
triiron tetraoxide	
titanium dioxide	
cobalt aluminate blue spinel	
silane**	
photoinitiator**	
butylated hydroxytoluene (BHT)	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
• TLV (Threshold Limit Value established by ACGIH)	
iron(III) oxide	A4
antimony nickel titanium oxide yellow	A4
	(Contd. on page 9)

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/19/2015

Trade name: GC Fuji Filling LC (Paste A, Shades: A1, A2, A3, A3.5, CV, and Blue)

titanium dioxide	(Contd. of page a A4
butylated hydroxytoluene (BHT)	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
titanium dioxide	
The product is classified and labeled according to the Globally Harmonized System • Hazard pictograms	n (GHS).
GHS07 GHS08	
· Signal word Danger	
 Hazard-determining components of labeling: 2-hydroxyethyl methacrylate (HEMA) initiator** dimethacrylate** butylated hydroxytoluene (BHT) Hazard statements Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. Precautionary statements Contaminated work clothing must not be allowed out of the workplace. [In case of inadequate ventilation] wear respiratory protection. Avoid breathing dust/fume/gas/mist/vapors/spray If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses to do. Continue rinsing. Store locked up. Dispose of contents/container in accordance with local/regional/national/internation · Chemical safety assessment: A Chemical Safety Assessment has not been carried 	al regulations.
6 Other information	
 Department issuing SDS: Regulatory Affairs Contact: Regulatory Affairs Telephone No. +1 (708) 597-0900 sds@gcamerica.com Date of preparation / last revision 04/20/2015 / - 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 (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterway ECHA: European Chemicals Agency 	

Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/19/2015

Trade name: GC Fuji Filling LC (Paste A, Shades: A1, A2, A3, A3.5, CV, and Blue)



or implied, on our part. Therefore, no warranty is made or to be implied that the information set out in 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.