

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

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

#### · Classification of the substance or mixture

Acute Toxicity (Oral) - Category 4 Acute Toxicity (Dermal) - Category 4 Acute Toxicity (Inhalation) - Category 4 Skin Irritation - Category 2 Eye Irritation - Category 2A **Respiratory Sensitizer - Category 1** 

Skin Sensitizer - Category 1 **Reproductive Toxicity - Category 2** 

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure -Category 3

#### · 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



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Signal word Danger Hazard-determining components of labeling: 2-hydroxyethyl methacrylate (HEMA) nitiator** dimethacrylate** butylated hydroxytoluene (BHT) urethane dimethacrylate (UDMA) Colorant 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. Suspected of damaging fertility or the unborn child.	
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May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.	
Suspected of damaging fertility or the unborn child.	
May cause respiratory irritation.	
Precautionary statements	
Near protective gloves/protective clothing/eye protection/face protection.	
F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses	, if present and
easy to do. Continue rinsing.	
F exposed or concerned: Get medical advice/attention.	
Rinse mouth.	
Take off contaminated clothing and wash it before reuse.	
Specific measures (see on this label).	
ake off immediately all contaminated clothing.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international reg	julations.
Additional information:	
2.2 % of the mixture consists of an ingredient or ingredients of unknown acute toxicity.	
Classification system:	
NFPA ratings (scale 0 - 4)	
IFFA failings (scale 0 - 4)	
Health = $2$	
Fire = 1	
2 1 Reactivity = 1	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 Health = 2	
FIRE 1 Fire = 1	
REACTIVITY 1 Reactivity = 1	

# 3 Composition/Information on ingredients

· Chemical characterization: Mixtures

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

	<ul> <li>Dangerous comp</li> </ul>	ponents:	
ľ	CAS: 868-77-9	2-hydroxyethyl methacrylate (HEMA)	7 - 13% w/w
		dimethacrylate**	1 - 5% w/w
	CAS: 72869-86-4	urethane dimethacrylate (UDMA)	1 - 5% w/w
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	initiator**	≤ 1% w/w
	Colorant	≤ 1% w/w
	photoinitiator**	≤ 1% w/w
CAS: 128-37-0	butylated hydroxytoluene (BHT)	≤ 1% w/w

#### 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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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 Firefighting 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:

Mouth respiratory protective device. Wear self-contained respiratory protective device.

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#### Additional information

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

#### 6 Accidental release measures

#### 

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.
- · Conditions for safe storage, including any incompatibilities
- · 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.

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	require monitoring at the workplace:
initiator**	
EL Long-term value: 0.1 mg/m <sup>3</sup> as persulfate	
EV Long-term value: 0.1 mg/m <sup>3</sup>	
<b>u</b>	at were valid during the creation were used as basis.
Exposure controls Personal protective equipment:	
General protective and hygienic m	easures:
The usual precautionary measures fo	or handling chemicals should be followed.
Avoid contact with the eyes and skin.	
Wash hands before breaks and at the Keep away from foodstuffs, beverage	
Immediately remove all soiled and co	
Breathing equipment:	
Suitable respiratory protect	ive device recommended.
	-
Protection of hands:	
riotection of hands.	
Protective gloves	
	rer to manufacturer. As the product is a preparation of sever ove material can not be calculated in advance and has therefore
The exact break through time has to to be observed.	be found out by the manufacturer of the protective gloves and h
The exact break through time has to	be found out by the manufacturer of the protective gloves and h
The exact break through time has to to be observed. <b>Eye protection:</b> Safety glasses	be found out by the manufacturer of the protective gloves and have a second sec
The exact break through time has to to be observed. Eye protection: Safety glasses Physical and chemical prope	erties
The exact break through time has to to be observed. <b>Eye protection:</b> Safety glasses	erties
The exact break through time has to to be observed. Eye protection: Safety glasses Physical and chemical prope Information on basic physical and General Information Appearance:	erties chemical properties
The exact break through time has to to be observed. Eye protection: Safety glasses Physical and chemical prope Information on basic physical and General Information Appearance: Form:	erties chemical properties Pasty
The exact break through time has to to be observed. Eye protection: Safety glasses Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color:	chemical properties Pasty According to product specification
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The exact break through time has to to be observed. Eye protection: Safety glasses Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor:	chemical properties Pasty According to product specification Odorless
The exact break through time has to to be observed. Eye protection: Safety glasses Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold: pH-value: Change in condition	erties chemical properties Pasty According to product specification Odorless Not determined. Not determined.
The exact break through time has to to be observed. Eye protection: Safety glasses Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold: pH-value:	erties chemical properties Pasty According to product specification Odorless Not determined.

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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 self-igniting.
<ul> <li>Danger of explosion:</li> </ul>	Product does not present an explosion hazard.
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	Not determined. Not determined.
· Vapor pressure:	Not determined.
<ul> <li>Density:</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	Not determined. Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with Water:</li> <li>Partition coefficient (n-octanol/wat</li> </ul>	Insoluble.
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not determined. Not determined.
· Solvent content:	
Solids content: · Other information	82.8 % 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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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 preparations: Irritant Carcinogenic categories	calculation methods f
IARC (International Agency for Research on Cancer)	
glass, oxide, chemicals	65997-17-3
silicon dioxide, amorphous	3
Colorant	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.	
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. Repeated dose toxicity. No further relevant information available. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) No further relevant information available. Reproductive Toxicity - Category 2	

## **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.

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· vPvB: Not applicable.

• Other adverse effects No further relevant information available.

## **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Dispose of contents / container in accordance with local / regional / national / international regulations.

· Uncleaned packagings:

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

		_
UN-Number DOT, TDG, ADN, IMDG, IATA	Void	
UN proper shipping name DOT, TDG, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
DOT, TDG, ADN, IMDG, IATA Class	Void	
Packing group DOT, TDG, 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	k II of Not applicable.	
UN "Model Regulation":	Void	

## 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 ingredients is listed.

- · Section 313 (Specific toxic chemical listings):
- antimony nickel titanium oxide yellow

cobalt aluminate blue spinel

TSCA (Toxic Substances Control Act):

glass, oxide, chemicals

2-hydroxyethyl methacrylate (HEMA)

dimethacrylate\*\*

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init	iator**
Со	lorant
ant	imony nickel titanium oxide yellow
triir	on tetraoxide
tita	nium dioxide
cob	palt aluminate blue spinel
	ane**
pho	otoinitiator**
but	ylated hydroxytoluene (BHT)
	nadian substance listings:
	nadian Domestic Substances List (DSL)
-	ss, oxide, chemicals
	nydroxyethyl methacrylate (HEMA)
	con dioxide, amorphous
init	iator**
Со	lorant
	imony nickel titanium oxide yellow
triir	ron tetraoxide
tita	nium dioxide
	palt aluminate blue spinel
sila	ane**
	otoinitiator**
	otoinitiator**
but	ylated hydroxytoluene (BHT)
Ca	nadian Ingredient Disclosure list (limit 0.1%)
No	ne of the ingredients is listed.
	nadian Ingredient Disclosure list (limit 1%)
	nydroxyethyl methacrylate (HEMA)
Th	IS label elements e product is classified and labeled according to the Globally Harmonized System (GHS). zard pictograms
<	
Gl	HS07 GHS08
Sic	nal word Danger

• Hazard-determining components of labeling: 2-hydroxyethyl methacrylate (HEMA) initiator\*\* dimethacrylate\*\* butylated hydroxytoluene (BHT) urethane dimethacrylate (UDMA)

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#### · Notes:

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• \* Data compared to the previous version altered. This version replaces all previous versions.

#### · Disclaimer:

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