

Printing date 07/13/2018

Version US-EN-Rev 1

Reviewed on 07/13/2018

#### **1** Identification

- · Product identifier
- Trade name: GC Fuji Automix LC (Paste A: Shades A1, A2, and A3)
- 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
- · 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 Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.
- Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Repr. 2 H361 Suspected of damaging fertility or the unborn child.
- Aquatic Acute 3 H402 Harmful to aquatic life.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 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) dimethacrylate component\*\* urethane dimethacrylate (UDMA) initiator\*\*

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(Contd. of page 1) Hazard statements 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. Harmful to aquatic life. Harmful to aquatic life with long lasting effects. **Precautionary statements** Wear protective gloves/protective clothing/eye protection/face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Hazard not otherwise classified (HNOC): None known. · Additional information: 5.9 % of the mixture consists of component(s) of unknown toxicity. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 0Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2FIRE 0 Fire = 0REACTIVITY 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.

<ul> <li>Dangerous com</li> </ul>	ponents:	
CAS: 868-77-9	2-hydroxyethyl methacrylate (HEMA)	10 - < 25%
	dimethacrylate component**	2.5 - < 5%
CAS: 41637-38-1	ethoxylated bisphenol-A dimethacrylate (Bis-EMA)	2.5 - < 5%
CAS: 72869-86-4	urethane dimethacrylate (UDMA)	2.5 - < 5%
	photoinitiator**	0.2 - < 0.5%
	butylated hydroxytoluene (BHT)	0.2 - < 0.5%
	initiator**	0.2 - < 0.5%
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· Additional information:

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

## 4 First-aid measures

#### · Description of first aid measures

General information:

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

#### After inhalation:

Supply fresh air; consult doctor in case of complaints.

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

· After skin contact:

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

· After eye contact:

Protect unharmed eye.

Rinse opened eye for several minutes under running water. Then 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 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, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water
- · 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:
- Environmental precautions: Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

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	terial for containment and cleaning up:	
Ensure adequate	ponents with liquid-binding material.	
	lected material according to regulations.	
Reference to othe	er sections	
	information on safe handling.	
	information on personal protection equipment.	
	r disposal information.	
	Criterion (PAC); Protective Action Criteria (PACs); Lower Explos	sive Limit (LEL)
* indicates the PA	AC value is between 10% and up to 50% of the LEL (10% LEL :	≤ PAC < 50% ĹEL).
	AC value is between 50% and up to 100% of the LEL (50% LEL	_ ≤ PAC < 100% LEL)
	AC value is at 100% or more of the LEL (PAC $\geq$ LEL). duction to PAC Table 2 – PAC Rev. 29 – May 2016	
PAC-1:	JUCIION IO PAG TADIE 2 – PAG REV. 29 – May 2016	
-	glass, oxide, chemicals	15 mg/m <sup>3</sup>
CAS: 868-77-9	2-hydroxyethyl methacrylate (HEMA)	1.9 mg/m <sup>3</sup>
UAS. 000-77-9		-
040, 70000 00 4	dimethacrylate component**	33 mg/m <sup>3</sup>
CAS: 72869-86-4	urethane dimethacrylate (UDMA)	120 mg/m <sup>2</sup>
	initiator**	0.3 mg/m <sup>3</sup>
PAC-2:		
CAS: 65997-17-3	glass, oxide, chemicals	170 mg/m³
CAS: 868-77-9	2-hydroxyethyl methacrylate (HEMA)	21 mg/m <sup>3</sup>
	dimethacrylate component**	360 mg/m <sup>3</sup>
CAS: 72869-86-4	urethane dimethacrylate (UDMA)	1,300 mg/m <sup>3</sup>
	initiator**	26 mg/m <sup>3</sup>
PAC-3:		· · ·
		990 mg/m <sup>3</sup>
	glass, oxide, chemicals	330 mg/m
	glass, oxide, chemicals 2-hydroxyethyl methacrylate (HEMA)	1,000 mg/m <sup>3</sup>
CAS: 65997-17-3		
CAS: 65997-17-3 CAS: 868-77-9	2-hydroxyethyl methacrylate (HEMA)	1,000 mg/m <sup>3</sup>

# 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: Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities

· Storage:

• **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.

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- · 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

#### initiator\*\*

TLV Long-term value: 0.1 mg/m<sup>3</sup>

as persulfate

· 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.

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. • Eve protection: Safety glasses

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9 Physical and chemical properties				
<ul> <li>Information on basic physical and c</li> <li>General Information</li> </ul>	hemical properties			
· Appearance:	Deste			
Form: Color:	Paste According to product specification			
· Odor:	Odorless			
· Odor threshold:	Not determined.			
· pH-value:	Not determined.			
<ul> <li>Change in condition Melting point/Melting range:</li> </ul>	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 self-igniting.			
<ul> <li>Danger of explosion:</li> </ul>	Product does not present an explosion hazard.			
<ul> <li>Explosion limits:</li> </ul>				
Lower:	Not determined.			
Upper:	Not determined.			
· Vapor pressure:	Not determined.			
· Density at 20 °C (68 °F):	2.1 g/cm <sup>3</sup> (17.5245 lbs/gal)			
· Relative density	Not determined.			
· Vapor density	Not determined.			
· Evaporation rate	Not determined.			
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Insoluble.			
· Partition coefficient (n-octanol/wate	r): Not determined.			
· Viscosity:				
Dynamic:	Not determined.			
Kinematic:	Not determined.			
<ul> <li>Solvent content: VOC content:</li> </ul>	0.00 %			
Solids content:	66.0 %			
· Other information	No further relevant information available.			

# **10 Stability and reactivity**

· Reactivity No further relevant information available.

· Chemical stability Stable at ambient temperature.

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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.
- $\cdot$  Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:

Oral

· LD/LC50 values that are relevant for classification:

#### butylated hydroxytoluene (BHT)

LD50 10,700 mg/kg (guinea pig) 1,040 mg/kg (mouse)

2,930 mg/kg (rat (f+m))

Dermal LD50 890 mg/kg (rat (f+m))

- · 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

Carcinogenie categories	
· IARC (International Agency for Research on Cancer)	
glass, oxide, chemicals	65997-17-3
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.	
<ul> <li>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.</li> <li>Repeated dose toxicity. No further relevant information available.</li> </ul>	
- nepeated dose toxicity. No further relevant information available.	

• CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

No further relevant information available.

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## 12 Ecological information

- · Toxicity
- Aquatic toxicity:

butylated hydroxytoluene (BHT)

NOEC-value Ecol. other effects 0.07 mg/l (daphnia magna) 21 day, reproductive effects

- 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.
- · Ecotoxical effects:
- Remark: Harmful to fish
- · Additional ecological information:
- · General notes: Harmful to aquatic organisms
- 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.
- · 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 Void · Class · Packing group · DOT, ADR, IMDG, IATA Void · Environmental hazards: Not applicable. Special precautions for user Not applicable. (Contd. on page 9)

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## Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

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

<ul> <li>SARA (Superfund Amendments and Reauthorization Act)</li> </ul>	
<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
glass, oxide, chemicals	
2-hydroxyethyl methacrylate (HEMA)	
surface-treated silica**	
dimethacrylate component**	
ethoxylated bisphenol-A dimethacrylate (Bis-EMA)	
urethane dimethacrylate (UDMA)	
photoinitiator**	
photoinitiator**	
butylated hydroxytoluene (BHT)	
initiator**	
<ul> <li>TSCA new (21st Century Act) (Substances not listed)</li> </ul>	
CAS: 41637-38-1 ethoxylated bisphenol-A dimethacrylate (Bis-EMA)	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value established by ACGIH)	
butylated hydroxytoluene (BHT)	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
<ul> <li>GHS label elements</li> <li>The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms</li> </ul>	



· Signal word Danger

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<ul> <li>Hazard-determining components of labeling:</li> </ul>	
2-hydroxyethyl methacrylate (HEMA)	
dimethacrylate component**	
urethane dimethacrylate (UDMA)	
initiator**	
· Hazard statements	
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.	
Harmful to aquatic life.	
Harmful to aquatic life with long lasting effects.	
• Precautionary statements	
Wear protective gloves/protective clothing/eye protection/face protection.	langes if avecant and easy
If in eyes: Rinse cautiously with water for several minutes. Remove contact	lenses, il present and easy
to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/inter	national regulations.
· Chemical safety assessment: A Chemical Safety Assessment has not bee	
16 Other information	
16 Other information	
<ul> <li>Department issuing SDS: Regulatory Affairs</li> </ul>	
· Contact:	
Regulatory Affairs	
Telephone No. +1 (708) 597-0900	
sds@gcamerica.com	
<ul> <li>Date of preparation / last revision 07/13/2018 / -</li> </ul>	
<ul> <li>Abbreviations and acronyms:</li> </ul>	
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 pa	ar voies de navigation intérieures
(European Agreement Concerning the International Carriage of Dangerous Goods by Inland W ECHA: European Chemicals Agency	
OSHA: Occupational Safety and Health Administration (USA)	
PAC: Protective Action Criterion (USA)	
PACs: Protective Action Criteria (USA)	
PACs: Protective Action Criteria (USA) HNOC: Hazard Not Otherwise Classified (USA)	
PACs: Protective Action Criteria (USA) HNOC: Hazard Not Otherwise Classified (USA) LEL: Lower Explosive Limit UEL: Upper Explosive Limit	aterways)
PACs: Protective Action Criteria (USA) HNOC: Hazard Not Otherwise Classified (USA) LEL: Lower Explosive Limit UEL: Upper Explosive Limit ADR: Accord européen sur le transport des marchandises dangereuses par Route (Euro	aterways)
PACs: Protective Action Criteria (USA) HNOC: Hazard Not Otherwise Classified (USA) LEL: Lower Explosive Limit UEL: Upper Explosive Limit ADR: Accord européen sur le transport des marchandises dangereuses par Route (Euro International Carriage of Dangerous Goods by Road)	aterways)
PACs: Protective Action Criteria (USA) HNOC: Hazard Not Otherwise Classified (USA) LEL: Lower Explosive Limit UEL: Upper Explosive Limit ADR: Accord européen sur le transport des marchandises dangereuses par Route (Euro International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation	aterways)
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PACs: Protective Action Criteria (USA) HNOC: Hazard Not Otherwise Classified (USA) LEL: Lower Explosive Limit UEL: Upper Explosive Limit ADR: Accord européen sur le transport des marchandises dangereuses par Route (Euro 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) VOC: Volatile Organic Compounds (USA, EU)	aterways)
PACs: Protective Action Criteria (USA) HNOC: Hazard Not Otherwise Classified (USA) LEL: Lower Explosive Limit UEL: Upper Explosive Limit ADR: Accord européen sur le transport des marchandises dangereuses par Route (Euro 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)	aterways)

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(Contd. of page 10) LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Repr. 2: Reproductive toxicity - Category 2 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 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,

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