

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

073259454

N/A

MS436051

**GC FUJI II LC - 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 - LIQUID  
GC FUJI II LC CAPSULES - LIQUID  
**GC FUJI II LC CORE 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<br>(ACGIH)                               | LD50 = 2500mg/kg<br>(oral rat)<br>LC50 = N.E. | 20-22 |
| 2-Hydroxyethyl methacrylate                   | Not listed | N.E.                                               | LD50=5888mg/kg<br>(oral rat)<br>LC50=N.E.     | 35-40 |
| Proprietary Ingredient                        |            | TLV=10mg/m <sup>3</sup><br>PEL=15mg/m <sup>3</sup> | N.E.                                          | 5-15  |
| 2,2,4, Trimethyl<br>hexamethylene dicarbonate | Not listed | N.E.                                               | N.E.                                          | 5-7   |
| Triethylene glycol<br>dimethacrylate          | Not listed | N.E.                                               | N.E.                                          | 4-6   |

**SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**

**BOILING POINT:** 101°C  
**VAPOR PRESSURE:** N.E.  
**VAPOR DENSITY:** N.E.  
**SOLUBILITY IN WATER:** N.E.  
**COEFFICIENT OF OIL/WATER DISTRIBUTION:** N.E.  
**APPEARANCE AND ODOR:** Colorless, slightly viscous and odorless liquid

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.18  
**MELTING POINT:** 13°C  
**EVAPORATION RATE:** N.E.  
**ODOR THRESHOLD:** N.E.

**SECTION 4 - FIRE AND EXPLOSION DATA**

**FLASH POINT:** N.E.  
**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.

**FLAMMABLE LIMITS:** N.A.

**SECTION 5 - REACTIVITY DATA**

**STABILITY:** Stable ☒ Unstable ☐  
**POLYMERIZATION:** Will Not Occur ☒ Will Occur ☐  
**CONDITIONS TO AVOID:** High heat; oxidizers  
**INCOMPATIBILITY (Materials to Avoid):** Alkali will inactivate product  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** N.E.

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**GC FUJI II LC - LIQUID**

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**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION**

|                     | YES | NO | NE | NA | NTP | IARC | OSHA | OTHER |
|---------------------|-----|----|----|----|-----|------|------|-------|
| MUTAGENIC AFFECTS   |     | X  |    |    |     |      |      |       |
| TERATOGENIC AFFECTS |     | X  |    |    |     |      |      |       |
| REPRODUCTIVE TOXIN  |     | X  |    |    |     |      |      |       |
| CARCINOGENICITY     |     | X  |    |    |     |      |      |       |
| SENSITIZER          |     | X  |    |    |     |      |      |       |

ROUTES OF ENTRY: Inhalation ☒ Skin ☒ 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 - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** None required

**VENTILATION:** Local Exhaust: N.A. Mechanical: N.A. Special: N.E. Other: N.A.

**PROTECTIVE GLOVES:** Latex gloves are recommended

**EYE PROTECTION:** Goggles or full face shield

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Do not spill on clothing. Eyewash station

**WORK/HYGIENIC PRACTICE:** N.E.

**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:** 09 January 2006

**REVISED:** 23 September 2009

**REVIEWED:** 21 February 2012

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

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

**FIRE - 1****TOXICITY - 1****NFPA  
REACTIVITY - 0****SPECIAL - ACID**



# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/20/2015

## 1 Identification

- **Product identifier**
- **Trade name:** GC Fuji II LC CORE Material (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**  
Eye Dam. 1 H318 Causes serious eye damage.  
Skin Irrit. 2 H315 Causes skin irritation.  
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**  
  
GHS05 GHS07
- **Signal word** Danger
- **Hazard-determining components of labeling:**  
2-hydroxyethyl methacrylate (HEMA)  
polybasic carboxylic acid\*\*  
urethane dimethacrylate (UDMA)

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## acc. to OSHA HCS 29 CFR 1910.1200

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**Trade name:** GC Fuji II LC CORE Material (Liquid)

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- **Hazard statements**

Causes skin irritation.  
Causes serious eye damage.  
May cause an allergic skin reaction.

- **Precautionary statements**

Contaminated work clothing must not be allowed out of the workplace.  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wear protective gloves.  
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.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

5 % of the mixture consists of component(s) of unknown toxicity.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
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:**

|            |                                    |        |
|------------|------------------------------------|--------|
| 868-77-9   | 2-hydroxyethyl methacrylate (HEMA) | 25-50% |
|            | polybasic carboxylic acid**        | 5-10%  |
| 72869-86-4 | urethane dimethacrylate (UDMA)     | 1-5%   |
|            | dimethacrylate**                   | 1-5%   |

- **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.

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**Trade name:** GC Fuji II LC CORE Material (Liquid)

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- 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.  
If symptoms persist consult doctor.  
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:**  
CO<sub>2</sub>, 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:**  
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.

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**Trade name:** GC Fuji II LC CORE Material (Liquid)

See Section 13 for disposal information.

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### 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.
- **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.

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Trade name: GC Fuji II LC CORE Material (Liquid)

· Eye protection: Safety glasses

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### 9 Physical and chemical properties

#### · Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

|                 |                 |
|-----------------|-----------------|
| Form:           | Liquid          |
| Color:          | Colorless       |
| Odor:           | Odorless        |
| Odor threshold: | Not determined. |

|             |                 |
|-------------|-----------------|
| · pH-value: | Not determined. |
|-------------|-----------------|

##### · Change in condition

|                              |                 |
|------------------------------|-----------------|
| Melting point/Melting range: | Undetermined.   |
| Boiling point/Boiling range: | 205 °C (401 °F) |

|                |                |
|----------------|----------------|
| · Flash point: | 97 °C (207 °F) |
|----------------|----------------|

|                                  |                 |
|----------------------------------|-----------------|
| · 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: | Fully miscible. |
|--------|-----------------|

|                                            |                 |
|--------------------------------------------|-----------------|
| · Partition coefficient (n-octanol/water): | Not determined. |
|--------------------------------------------|-----------------|

##### · Viscosity:

|            |                 |
|------------|-----------------|
| Dynamic:   | Not determined. |
| Kinematic: | Not determined. |

##### · Solvent content:

|                   |        |
|-------------------|--------|
| Organic solvents: | 0.0 %  |
| Water:            | 25.0 % |

|                 |        |
|-----------------|--------|
| Solids content: | 65.2 % |
|-----------------|--------|

|                     |                                            |
|---------------------|--------------------------------------------|
| · Other information | No further relevant information available. |
|---------------------|--------------------------------------------|

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Trade name: GC Fuji II LC CORE Material (Liquid)

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### 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:** 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  
Irritant
- **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.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

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- **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.
- **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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- |                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| · <b>UN-Number</b>                                                               |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>                                               | Void            |
| · <b>UN proper shipping name</b>                                                 |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>                                               | Void            |
| · <b>Transport hazard class(es)</b>                                              |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>                                               |                 |
| · <b>Class</b>                                                                   | Void            |
| · <b>Packing group</b>                                                           |                 |
| · <b>DOT, ADR, IMDG, IATA</b>                                                    | Void            |
| · <b>Environmental hazards:</b>                                                  |                 |
| · <b>Marine pollutant:</b>                                                       | No              |
| · <b>Special precautions for user</b>                                            | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>                                                  | -               |

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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)

|                                                        |
|--------------------------------------------------------|
| · <b>Section 355 (extremely hazardous substances):</b> |
|--------------------------------------------------------|

|                                   |
|-----------------------------------|
| None of the ingredient is listed. |
|-----------------------------------|

|                                                          |
|----------------------------------------------------------|
| · <b>Section 313 (Specific toxic chemical listings):</b> |
|----------------------------------------------------------|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|                                               |
|-----------------------------------------------|
| · <b>TSCA (Toxic Substances Control Act):</b> |
|-----------------------------------------------|

|                             |
|-----------------------------|
| All ingredients are listed. |
|-----------------------------|

- **Carcinogenic categories**

|                                                |
|------------------------------------------------|
| · <b>EPA (Environmental Protection Agency)</b> |
|------------------------------------------------|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|                                                           |
|-----------------------------------------------------------|
| · <b>TLV (Threshold Limit Value established by ACGIH)</b> |
|-----------------------------------------------------------|

|                                |    |
|--------------------------------|----|
| butylated hydroxytoluene (BHT) | A4 |
|--------------------------------|----|

|                                                                           |
|---------------------------------------------------------------------------|
| · <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> |
|---------------------------------------------------------------------------|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05 GHS07

- **Signal word** Danger

- **Hazard-determining components of labeling:**

2-hydroxyethyl methacrylate (HEMA)

polybasic carboxylic acid\*\*

urethane dimethacrylate (UDMA)

- **Hazard statements**

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

- **Precautionary statements**

Contaminated work clothing must not be allowed out of the workplace.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves.

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.

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

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

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### 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  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
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](http://www.echemportal.org))
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- **\* Data compared to the previous version altered.** This version replaces all previous versions.
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