

SAFETY DATA SHEETS

This SDS packet was issued with item:

073260965

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

073261211 073261229

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).

073260973 073260981



MS434491

GC FUJI LINING 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 LINING LC LIQUID

CHEMICAL NAME: N.A.

PRODUCT USE: Light-cured glass ionomer liner for 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 (ACGIH)	LD50 = 2500mg/kg (oral rat) LC50 = N.E.	65-75
2-Hydroxyethyl methacrylate	Not listed	N.E.	LD50=5888mg/kg (oral rat) LC50=N.E.	8-10
Proprietary Ingredient		TLV=10mg/m ³ PEL=15mg/m ³	N.E.	5-15

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 101°C	SPECIFIC GRAVITY (H2O = 1): 1.18
VAPOR PRESSURE: N.E.	MELTING POINT: 13°C
VAPOR DENSITY: N.E.	EVAPORATION RATE: N.E.
SOLUBILITY IN WATER: N.E.	ODOR THRESHOLD: N.E.

COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.
APPEARANCE AND ODOR: Colorless, slightly viscous and odorless liquid

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: Not flammable

FLAMMABLE LIMITS: N.A.

EXTINGUISHING MEDIA: Alcohol foam

SPECIAL FIRE FIGHTING PROCEDURES: Full protective clothing and self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

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

SECTION 5 - REACTIVITY DATA

STABILITY: Stable <input checked="" type="checkbox"/>	Unstable <input type="checkbox"/>
POLYMERIZATION: Will Not Occur <input checked="" type="checkbox"/>	Will Occur <input type="checkbox"/>

CONDITIONS TO AVOID: High heat

INCOMPATIBILITY (Materials to Avoid): Alkali will inactivate product.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N.E.



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): 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: 20 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



MS434410

GC FUJI LINING LC - POWDER
MATERIAL SAFETY DATA SHEET

Page 1 of 2

SECTION 1 - SOURCE/IDENTITY/USE INFORMATION**DISTRIBUTOR**

GC AMERICA INC.
3737 West 127th St.
Alsip, Illinois, 60803
Telephone: 708-597-0900
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Transportation Emergency Telephone No. 800-424-9300

COMMON NAME: GC FUJI LINING LC - POWDER**CHEMICAL NAME:** N.A.**PRODUCT USE:** Light-cured glass ionomer liner for dental cavity preparations. Powder component.

The following information is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Alumino-fluoro-silicate glass (amorphous)	Not listed	TLV=10mg/m ³ PEL=15mg/m ³ (ACGIH)	N.E.	100

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: N.E. **SPECIFIC GRAVITY (H₂O = 1):** 2.56
VAPOR PRESSURE: N.E. **MELTING POINT:** >1,350°C
VAPOR DENSITY: N.E. **EVAPORATION RATE:** N.E.
SOLUBILITY IN WATER: Insoluble **ODOR THRESHOLD:** N.E.
COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E. **APPEARANCE AND ODOR:** Very fine white powder

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: N.A. **FLAMMABLE LIMITS:** N.A.
EXTINGUISHING MEDIA: Material is not combustible. Use extinguishing media appropriate to the surrounding area.
SPECIAL FIRE FIGHTING PROCEDURES: N.A.
UNUSUAL FIRE AND EXPLOSION HAZARDS: N.E.
HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide

SECTION 5 - REACTIVITY DATA

STABILITY: Stable Unstable
POLYMERIZATION: Will Not Occur Will Occur

CONDITIONS TO AVOID: Avoid high temperatures and humidity**INCOMPATIBILITY (Materials to Avoid):** N.E.**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** No decomposition if used or stored according to specifications.**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION**

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



MS434410

GC FUJI LINING LC - POWDER

Page 2 of 2

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

ROUTES OF ENTRY: Inhalation Skin Ingestion

HEALTH HAZARD (Acute and Chronic): Dusts of silica glass is a known cause of silicosis, a non-cancerous lung disease.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Irritation and soreness in throat and nose.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May aggravate preexisting upper respiratory and lung disease.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove to fresh air, drink water to clear throat and blow nose to evacuate dust.

INGESTION: Ingestion may require medical assistance.

SKIN: Wash with soap and water.

EYES: Flush with large quantities of water. If irritation develops or persists seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Avoid generating dust while sweeping. If an excessive amount of dust is generated use a filter equipped vacuum and MSHA/NIOSH approved mask.

WASTE DISPOSAL METHOD: In accordance with local, state and federal regulations.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store at normal room temperatures and humidity.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: Minimize exposure to dust in accordance with good hygiene practice. If needed, use MSHA-NIOSH approved respirator for dusts, mists and fumes.

VENTILATION: Local Exhaust: Yes Mechanical: Yes Special: N.A. Other: N.A.

PROTECTIVE GLOVES: Disposable vinyl gloves recommended.

EYE PROTECTION: Safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eyewash station

WORK/HYGIENIC PRACTICE: Follow safe hygiene 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: 09 January 2006

REVISED: 12 March 2012

N.A. = NOT APPLICABLE
N.E. = NOT ESTABLISHED

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FIRE - 0

TOXICITY - 1

NFPA
REACTIVITY - 0

SPECIAL -



MS432571B

GC FUJI LINING LC PASTE PAK – PASTE B

MATERIAL SAFETY DATA SHEET

Page 1 of 2

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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 LINING LC PASTE PAK – PASTE B**CHEMICAL NAME:** N.A.**PRODUCT USE:** Light-cured glass ionomer liner for cavity preparations.

The following information is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed paste/paste system.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
2-Hydroxyethyl methacrylate	868-77-9	N.E.	LD50=5888mg/kg (oral rat) LC50=N.E.	30-40
Polyacrylic acid	Not listed	TWA=10ppm (ACGIH)	LD50 = 2500mg/kg (oral rat) LC50 = N.E.	25-35
Proprietary Ingredient		TLV=10mg/m ³ PEL=15mg/m ³	N.E.	5-10
Silica powder	14808-60-07	N.E.	N.E.	1-5

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: N.E. **SPECIFIC GRAVITY (H2O = 1):** N.E.
VAPOR PRESSURE: N.E. **MELTING POINT:** N.E.
VAPOR DENSITY: N.E. **EVAPORATION RATE:** N.E.
SOLUBILITY IN WATER: 33.0% **ODOR THRESHOLD:** N.E.
COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E. **APPEARANCE AND ODOR:** Pale yellow, odorless paste.

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: N.E. **FLAMMABLE LIMITS:** N.A.**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, alcohol-resistant foam, water spray.**SPECIAL FIRE FIGHTING PROCEDURES:** None**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None**HAZARDOUS COMBUSTION PRODUCTS:** None

SECTION 5 - REACTIVITY DATA

STABILITY: **Stable** **Unstable**
POLYMERIZATION: **Will Not Occur** **Will Occur**

CONDITIONS TO AVOID: High temperatures, incompatible materials, ignition sources, excess heat, oxidizers.**INCOMPATIBILITY (Materials to Avoid):** None**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** No decomposition if used or stored according to specifications.



SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

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

ROUTES OF ENTRY: Inhalation Skin Ingestion

HEALTH HAZARD (Acute and Chronic): Irritant to eyes, skin and mucous membranes. Sensitization possible through skin contact.
SIGNS AND SYMPTOMS OF OVEREXPOSURE: Excessive exposure may produce a headache, irritate eyes and tearing.
CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

EMERGENCY FIRST AID PROCEDURES:

- INHALATION:** Remove to fresh air. Seek medical attention.
- INGESTION:** Do not induce vomiting – give large volumes of water. Seek medical attention.
- SKIN:** Flush skin with plenty of soap and water. Seek medical attention.
- EYES:** Immediately flush with water for at least 15 minutes. Seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Wipe or absorb with inert materials and transfer to container for disposal.
WASTE DISPOSAL METHOD: Dispose of waste in accordance with local, state and federal regulations.
STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store in cool, dark place. Keep tightly sealed.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: None required

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

PROTECTIVE GLOVES: Disposable vinyl gloves
EYE PROTECTION: Goggles or full face shield
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eyewash station
WORK/HYGIENIC PRACTICE: Follow safe hygienic 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: 09 January 2006
REVIEWED: 02 April 2012

N.A. = NOT APPLICABLE
N.E. = NOT ESTABLISHED

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

Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1



Reviewed on 02/24/2015

1 Identification

- **Product identifier**
- **Trade name:** GC Fuji LINING LC (Liquid)
- **Relevant identified uses of the substance or mixture and uses advised against**
Dental material
The product is intended for professional use.
To avoid risks for humans and environment obtain instructions.
- **Application of the substance / the mixture** Dental filling material
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
GC America Inc.
3737 W. 127th Street
Alsip, IL 60803
USA

sds@gcamerica.com
- **Information department:** Regulatory Affairs
- **Emergency telephone number:**
During normal opening times (Mon.-Fri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900
Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Additional information:**
The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**

GHS05 GHS07
- **Signal word** Danger
- **Hazard-determining components of labeling:**
2-hydroxyethyl methacrylate (HEMA)
polybasic carboxylic acid**
urethane dimethacrylate (UDMA)

(Contd. on page 2)

USA

Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

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Version US-EN-Rev 1

Reviewed on 02/24/2015

Trade name: GC Fuji LINING LC (Liquid)

(Contd. of page 1)

- **Hazard statements**

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

- **Precautionary statements**

Do not breathe dusts or mists.
Wear protective gloves.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

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

- **Classification system:**

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



Health = 2
Fire = 1
Reactivity = 1

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



HEALTH 2 Health = 2
FIRE 1 Fire = 1
REACTIVITY 1 Reactivity = 1

- **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.

(Contd. on page 3)

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acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

Trade name: GC Fuji LINING LC (Liquid)

(Contd. of page 2)

- If symptoms persist consult doctor.
- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Seek medical treatment.
- **After eye contact:**
Protect unharmed eye.
Rinse opened eye for several minutes under running water.
Call a doctor immediately.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** Allergic reactions
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Remove persons from danger area.
Avoid contact with the eyes and skin.
Wear protective clothing.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
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:**
Use neutralizing agent.
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.

(Contd. on page 4)

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Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

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Trade name: GC Fuji LINING LC (Liquid)

See Section 13 for disposal information.

(Contd. of page 3)

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.

(Contd. on page 5)

USA

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Version US-EN-Rev 1

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Trade name: GC Fuji LINING LC (Liquid)

· Eye protection: Safety glasses

(Contd. of page 4)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Color:	Light yellow
· Odor:	Odorless
· Odor threshold:	Not determined.

· pH-value at 20 °C (68 °F):	1.9
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· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

· Flash point:	Not applicable.
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· Flammability (solid, gaseous):	Not applicable.
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· Ignition temperature:	Undetermined.
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· Decomposition temperature:	Not determined.
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· Auto igniting:	Product is not selfigniting.
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· Danger of explosion:	Product does not present an explosion hazard.
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· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapor pressure:	Not determined.
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· Density:	Not determined.
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· Relative density	Not determined.
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· Vapour density	Not determined.
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· Evaporation rate	Not determined.
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· Solubility in / Miscibility with

Water:	Insoluble.
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· Partition coefficient (n-octanol/water):	Not determined.
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· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

· Solvent content:

Organic solvents:	0.0 %
Water:	25.0 %

· Other information	No further relevant information available.
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(Contd. on page 6)

Safety Data Sheet

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Version US-EN-Rev 1

Reviewed on 02/24/2015

Trade name: GC Fuji LINING LC (Liquid)

(Contd. of page 5)

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable at ambient temperature.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** No further relevant information available.
- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

poly(acrylic acid)	3
butylated hydroxytoluene (BHT)	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Carcinogenic categories' legend:**

- IARC Group 1: The agent is carcinogenic to humans.
- IARC Group 2A: The agent is probably carcinogenic to humans.
- IARC Group 2B: The agent is possibly carcinogenic to humans.
- IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.
- IARC Group 4: The agent is probably not carcinogenic to humans.
- NTP K: Known to be human carcinogen.
- NTP R: Reasonably anticipated to be human carcinogen.

12 Ecological information

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

(Contd. on page 7)

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Safety Data Sheet

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Trade name: GC Fuji LINING LC (Liquid)

(Contd. of page 6)

- **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 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even small quantities leak into the ground.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|-----------------|
| <ul style="list-style-type: none"> · UN-Number · DOT, ADR, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT, ADR, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class | Void |
| <ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: | No |
| <ul style="list-style-type: none"> · Special precautions for user | Not applicable. |
| <ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

(Contd. on page 8)

USA

Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

Trade name: GC Fuji LINING LC (Liquid)

(Contd. of page 7)

· UN "Model Regulation":

-

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA (Superfund Amendments and Reauthorization Act)

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

2-hydroxyethyl methacrylate (HEMA)

poly(acrylic acid)

polybasic carboxylic acid**

urethane dimethacrylate (UDMA)

dimethacrylate**

water, distilled

· 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.

· 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 severe skin burns and eye damage.

May cause an allergic skin reaction.

· Precautionary statements

Do not breathe dusts or mists.

Wear protective gloves.

(Contd. on page 9)

USA

Safety Data Sheet

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Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

Trade name: GC Fuji LINING LC (Liquid)

(Contd. of page 8)

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Store locked up.

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

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

16 Other information

• **Department issuing MSDS:** Regulatory Affairs

• **Contact:**

Regulatory Affairs

Telephone No. +1 (708) 597-0900

sds@gcamerica.com

• **Date of preparation / last revision** 02/24/2015 / -

• **Abbreviations and acronyms:**

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

HCS: Hazard Communication Standard (USA)

MSDS: Material Safety Data Sheet

SDS: Safety Data Sheet

ECHA: European Chemicals Agency

OSHA: Occupational Safety and Health Administration (USA)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

• **Sources**

• Manufacturers' MSDSs/SDSs

• OSHA (<https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html>)

• TOXNET (<http://toxnet.nlm.nih.gov/>)

• ECHA (<http://echa.europa.eu/>)

• EnviChem (www.echemportal.org)

• **Notes:**

CAS Registry Number is a Registered Trademark of the American Chemical Society.

CHEMTREC® is a registered service mark of the American Chemistry Council, Inc.

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

• **Disclaimer:**

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(Contd. on page 10)

USA

Safety Data Sheet
acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

Trade name: GC Fuji LINING LC (Liquid)

our negligence or for fraudulent misrepresentation.

(Contd. of page 9)

USA