



SECTION 4 - FIRE AND EXPLOSION DATA - continued

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: X UNSTABLE: \_\_\_\_\_

POLYMERIZATION: \_\_\_\_\_ WILL NOT OCCUR: X WILL OCCUR: \_\_\_\_\_

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

	<u>YES</u>	<u>NO</u>	<u>NE</u>	<u>NA</u>	<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>	<u>OTHER</u>
MUTAGENIC AFFECTS:		<u>X</u>						
TERATOGENIC AFFECTS:		<u>X</u>						
REPRODUCTIVE TOXIN:		<u>X</u>						
CARCINOGENICITY:		<u>X</u>						
SENSITIZER:		<u>X</u>						
ROUTES OF ENTRY:								
	INHALATION	_____	SKIN	<u>X</u>		INGESTION		<u>X</u>

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.

## FUJI LINING LC LIQUID

MS434491

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Neutralize with diluted hydroxide.

WASTE DISPOSAL METHOD: Dilute with water and flush into drain with large volumes of water.

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.

None required 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. Eye wash 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

PREPARED BY: T. Joritz  
Director, Regulatory AffairsDate: 03 January 2000

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

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

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FIRE 0 TOXICITY 2 REACTIVITY 0 SPECIAL ACID

## MATERIAL SAFETY DATA SHEET

SECTION 1 - SOURCE/IDENTITY/USE INFORMATIONMANUFACTURERSUPPLIER

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: 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 AND C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Alumino-silicate glass (not listed)	TLV=10mg/m <sup>3</sup> PEL=15mg/m <sup>3</sup> (ACGIH)	N.E.	100

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: N.E.

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 2.56

VAPOR PRESSURE: N.E.

MELTING POINT: &gt;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 COLOR: 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 DATASTABILITY: \_\_\_\_\_ STABLE: X UNSTABLE: \_\_\_\_\_POLYMERIZATION: \_\_\_\_\_ WILL NOT OCCUR: X WILL OCCUR: \_\_\_\_\_

CONDITIONS TO AVOID: Avoid high temperatures and humidity.

INCOMPATIBILITY (MATERIALS TO AVOID): Contains silica glass. Avoid contact with hydrofluoric acid. Contact with acids liberates hydrogen fluoride gas which is toxic and corrosive.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: At elevated temperatures various fluoride compounds will be liberated, including toxic hydrogen fluoride and sodium potassium fluoride.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

	<u>YES</u>	<u>NO</u>	<u>NE</u>	<u>NA</u>	<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>	<u>OTHER</u>
MUTAGENIC AFFECTS:		<u>X</u>						
TERATOGENIC AFFECTS:		<u>X</u>						
REPRODUCTIVE TOXIN:		<u>X</u>						
CARCINOGENICITY:	<u>X</u>					<u>X</u>	(GROUP 2A)	
SENSITIZER:		<u>X</u>						
ROUTES OF ENTRY:								
	INHALATION	<u>X</u>	SKIN	_____			INGESTION	

HEALTH HAZARD: (ACUTE AND CHRONIC): Contains silica glass, which is considered a hazard by inhalation. IARC has classified it as a probable carcinogenic for humans. Dusts of silica glass is also 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.

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

## 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.

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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.

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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.

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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

PREPARED BY: T. Joritz  
Director, Regulatory Affairs

Date: 03 January 2000

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FIRE        0    TOXICITY    1    REACTIVITY    0    SPECIAL    -

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