

## MATERIAL SAFETY DATA SHEET

## SECTION 1 - SOURCE/IDENTITY/USE INFORMATION

|   |                 |
|---|-----------------|
| <b>MANUFACTURER</b><br>GC AMERICA INC.<br>3737 West 127th St.<br>Alsip, Illinois, 60803<br>Telephone: 708-597-0900<br>Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T.<br>Transportation Emergency Telephone No. 800-424-9300 | <b>SUPPLIER</b> |
|---|-----------------|

**COMMON NAME:** FUJI I POWDER  
FUJI I CAPSULES POWDER

**Chemical Name:** N.A.

**PRODUCT USE:** Dental composite filling material - 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                                   | %      |
|--|---|---|--------|
| Polyacrylic acid<br>(not listed)                     | TWA=10ppm<br>(ACGIH)  | LD50 = 2500mg/kg<br>(oral rat)<br>LC50=N.E. | 3-5%   |
| Aluminosilicate<br>glass<br>(not listed)<br><br>N.E. | TLV=10mg/m <sup>3</sup><br>PEL=15mg/m <sup>3</sup><br>(ACGIH) | N.E.  | 90-95% |

## SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

|  |  |
|--|--|
| <b>BOILING POINT:</b> N.E.                         | <b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b> 2.56 |
| <b>VAPOR PRESSURE:</b> N.A.                        | <b>MELTING POINT:</b> 1350°C                       |
| <b>VAPOR DENSITY:</b> N.A.                         | <b>EVAPORATION RATE:</b> N.A.                      |
| <b>SOLUBILITY IN WATER:</b> Insoluble              | <b>ODOR THRESHOLD:</b> N.E.                        |
| <b>COEFFICIENT OF OIL/WATER DISTRIBUTION:</b> N.E. |  |

**APPEARANCE AND ODOR:** Very fine white powder

## SECTION 4 - FIRE AND EXPLOSION DATA

**FLASH POINT:** Not flammable      **FLAMMABLE LIMITS:** N.A.

**EXTINGUISHING MEDIA:** Alcohol foam

## 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 above 101°C.

## 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

|                      | YES | NO | N.E. | N.A. | NTP | IARC         | OSHA | OTHER |
|----------------------|-----|----|------|------|-----|--------------|------|-------|
| MUTAGENIC AFFECTS:   |     | X  |      |      |     |              |      |       |
| TERATOGENIC AFFECTS: |     | X  |      |      |     |              |      |       |
| REPRODUCTIVE TOXIN:  |     | X  |      |      |     |              |      |       |
| CARCINOGENICITY:     | X   |    |      |      |     | X (Group 2A) |      |       |
| SENSITIZER:          |     | X  |      |      |     |              |      |       |

ROUTES OF ENTRY: INHALATION X SKIN X INGESTION X

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:**

**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.

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

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE**

**IN CASE OF RELEASE OR SPILL:** Avoid generating dust during cleanup. 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 practices. If needed, use MSHA-NIOSH approved respiration.

|                                   |                           |                        |
|-----------------------------------|---------------------------|------------------------|
| <b>VENTILATION:</b> None required | <b>LOCAL EXHAUST:</b> Yes | <b>MECHANICAL:</b> YES |
|                                   | <b>SPECIAL:</b> N.A.      | <b>OTHER:</b> N.A.     |

**PROTECTIVE GLOVES:** Disposable vinyl 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:** Follow safe hygiene practices.



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Telephone: 708-597-0900

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Transportation Emergency Telephone No. 800-424-9300

COMMON NAME: FUJI I LIQUID  
FUJI I CAPSULES LIQUID

Chemical Name: N.A.

PRODUCT USE: Dental composite filling material - 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 AND C.A.S.             | EXPOSURE LIMITS      | LD50/LC50                                   | %      |
|----------------------------------|----------------------|---|--------|
| Polyacrylic acid<br>(not listed) | TWA=10ppm<br>(ACGIH) | LD50 = 2500mg/kg<br>(oral rat)<br>LC50=N.E. | 35-40% |

## SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

|   |   |
|---|---|
| BOILING POINT: 101°C                        | SPECIFIC GRAVITY (H <sub>2</sub> O = 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

## 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

|                      | YES | NO | N.E. | N.A. | NTP | IARC | OSHA | OTHER |
|----------------------|-----|----|------|------|-----|------|------|-------|
| MUTAGENIC AFFECTS:   |     | X  |      |      |     |      |      |       |
| TERATOGENIC AFFECTS: |     | X  |      |      |     |      |      |       |
| REPRODUCTIVE TOXIN:  |     | X  |      |      |     |      |      |       |
| CARCINOGENICITY:     |     | X  |      |      |     |      |      |       |
| SENSITIZER:          |     | X  |      |      |     |      |      |       |

ROUTES OF ENTRY: INHALATION SKIN X INGESTION X

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: 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: None required    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

PREPARED BY: T. Joritz  
Director Regulatory Affairs

Date: 1 November 97

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 0            TOXICITY 2            NFPA  
   REACTIVITY 0            SPECIAL ACID

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