

SDS No. 03-2-094-(1)-E, GC Fuji PLUS – Liquid

**SAFETY DATA SHEET**

Number: 03-2-094-(1)-E

Date prepared: 2003 Feb 06

Date Revised: 2016 Mar 15

**1. Chemical Product and Company Identification****Product code:** -**Product name:** GC Fuji PLUS - Liquid**Manufacturer / Supplier:**

GC Corporation, 76-1 Hasunuma-Cho, Itabashi-Ku, Tokyo, Japan

Postal code 174-8585, Phone 81-3-3965-1388

**2. Hazards Identification****Pictograms or hazard symbols (Referring to HEMA)****[Prevention]** Avoid breathing dust/fume/gas/mist/vapours/spray.

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

Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.

**[Response]** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Gently wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

**Other hazards which do not result in classification:** May cause polymerization.**3. Composition / Information on Ingredients**

(% chemical components by WT)

Polyacrylic acid	45
Distilled water	35
2-Hydroxyethylmethacrylate (HEMA)	15
Dimethacrylate	5

**4. First Aid Measures****(Referring to HEMA)****Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention if you feel unwell.

**Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.**Ingestion:** Get medical advice/attention if you feel unwell. Rinse mouth.**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and airtight goggles.**5. Fire Fighting Measures****(Referring to HEMA)****Suitable extinguishing media:**

Dry chemical, foam, water in large amounts, carbon dioxide.

**Specific hazards arising from the chemical:**

This substance may polymerize explosively when heated or involved in a fire.

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Container may explode when heated. Combat fire from a sheltered position.

**Precautions for firefighters:** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

**Special protective equipment for firefighters:** When extinguishing fire, be sure to wear personal protective equipment.

## 6. Accidental Release Measures

**(Referring to HEMA)**

**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

**Environmental precautions:** Prevent product from entering drains.

**Methods and materials for containment and cleaning up:**

Absorb spilled material in dry sand or inert absorbent before recovering it into a covered container.

In case of large amount of spillage, contain a spill by bunding.

Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 7. Handling and Storage

**(Referring to HEMA)**

**Precautions for safe handling**

**Technical measures:** Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent generation of vapour or mist. Wash hands and face thoroughly after handling.

Use a ventilation, local exhaust if vapour or aerosol will be generated.

**Advice on safe handling:** Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Keep container tightly closed. Store in a cool and dark place.

Store away from incompatible materials such as oxidizing agents.

Light-sensitive

**Packaging material:** Comply with laws.

## 8. Exposure Controls, Personal Protection

**(Referring to HEMA)**

**Engineering controls:** Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

**Control parameters:** Not set up

**Personal protective equipment**

**Respiratory protection:** Vapor respirator. Follow local and national regulations.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. A face-shield, if the situation requires.

**Skin and body protection:** Protective clothing. Protective boots, if the situation requires.

## 9. Physical and Chemical Properties

**Appearance:** Light yellow liquid.

**Odor:** Slight monomer odor

**Boiling Point:** No data

**Flash Point:** No data

**Vapor Pressure:** No data.

**Vapor Density:** No data.

**Solubility in Water:** Difficult to mix.

**Specific Gravity:** No data

**Freezing Point:** No data

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**pH:** approx. 1.9

**Volatility:** No data.

## 10. Stability and Reactivity

**(Referring to HEMA)**

**Chemical stability:** Polymerization may occur under the influences of heat, light or on contact with polymerization initiators such as peroxides etc.

**Possibility of hazardous reactions:** No special reactivity has been reported.

**Conditions to avoid:** Heat, Light

**Incompatible materials:** Oxidizing agents, Acids, Bases

**Hazardous decomposition products:** Carbon monoxide, Carbon dioxide

## 11. Toxicological Information

**(Referring to HEMA)**

**Acute Toxicity:** ipr-mus LD50:497 mg/kg

ipr-rat LD50:1250 mg/kg

orl-mus LD50:3275 mg/kg

orl-rat LD50:5050 mg/kg

## 12. Ecological Information

**(Referring to HEMA)**

**Ecotoxicity:**

**Fish:** 96h LC50:>100 mg/L (*Oryzias latipes*)

**Crustacea:** 48h EC50:380 mg/L (*Daphnia magna*)

**Algae:** 72h EC50:350 mg/L (*Selenastrum capricornutum*)

## 13. Disposal Considerations

**(Referring to HEMA)**

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

## 14. Transport Information

**(Referring to HEMA)**

**Hazards Class:** Does not correspond to the classification standard of the United Nations

**UN-No:** Not listed

## 15. Regulatory Information

**(Referring to HEMA)**

**Fire Defense Law (Japan):** Class-4 No.3 petroleum Dangerous grade 3 Water-soluble fluid

## 16. Other Information

**The reference company name of written contents**

**Company:** TOKYO CHEMICAL INDUSTRY CO., LTD.

**Address:** 4-10-2, Nihonbashi-honcho, Chuo-ku, Tokyo 103-0023, Japan

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