

SDS No. 05-2-016-(1)-E, GC Fuji Ortho – Liquid

SAFETY DATA SHEET

Number: 05-2-016-(1)-E

Date prepared: 2002 August 8

Date Revised: 2016 Mar 15

1. Chemical Product and Company Identification**Product code:** -**Product name:** GC Fuji Ortho - 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.

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