

**SAFETY DATA SHEET**

Number: 03-2-075-(1)-E

Date prepared: 2003 June 24

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**1. Chemical Product and Company Identification**

Product code: -

Product name: GC Elite Cement 100 - 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 of hazard symbol (referring to phosphoric acid)

**Precautionary statements:****[Prevention]** Keep only in original container.

Do not breathe dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.

**[Response]** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

Immediately call a POISON CENTER or doctor/physician.

Absorb spillage to prevent material damage.

**[Storage]** Store in a well-ventilated place. Keep container tightly closed. Store locked up.**3. Composition / Information on Ingredients**

(% chemical components by WT)

Phosphoric acid	60
Distilled water	37
Aluminum	3

**4. First Aid Measures**

(Referring to phosphoric acid)

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.**Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor / physician.**Ingestion:** Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.**Most important symptoms/effects, acute and delayed:**

Burning sensation, Cough, Shortness of breath, Sore throat, Abdominal pain, Collapse, Redness, Pain, Burn, Blistering

**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and airtight goggles.

## 5. Fire Fighting Measures

(Referring to phosphoric acid)

**Suitable extinguishing media:** Dry chemical, foam, water spray, carbon dioxide.

**Specific hazards arising from the chemical:**

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

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

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

**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 phosphoric acid)

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

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved 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 phosphoric acid)

**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 closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

**Advice on safe handling:** Avoid contact with skin, eyes and clothing. Use corrosive resistant equipment.

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

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

Store locked up.

Store away from incompatible materials such as oxidizing agents.

**Packaging material:** Comply with laws. Keep only in original container.

## 8. Exposure Controls, Personal Protection

(Referring to phosphoric acid)

**Engineering controls:** Install a closed system or local exhaust. Also install safety shower and eye bath.

**Control parameters:** Not set up

**Exposure limits:**

**ACGIH TLV(TWA):** 1 mg/m<sup>3</sup>

**ACGIH TLV(STEL):** 3 mg/m<sup>3</sup>

**OSHA PEL(TWA):** 1 mg/m<sup>3</sup>

**JSOH OELs(TWA):** 1 mg/m<sup>3</sup>

**Personal protective equipment**

**Respiratory protection:** Half or full facepiece respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

**Hand protection:** Impervious gloves.

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

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

**9. Physical and Chemical Properties**

**Appearance:** Light yellow liquid.

**Odor:** Acidic odor

**Boiling Point:** 101 degC

**Vapor Pressure:** Not determined.

**Vapor Density:** Not determined.

**Solubility in Water:** Miscible

**Specific Gravity:** 1.4

**Freezing Point:** No data

**pH:** 2

**Volatility:** Not determined.

**10. Stability and Reactivity**

(Referring to phosphoric acid)

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

no data available

**Conditions to avoid**

no data available

**Materials to avoid**

Strong bases, Powdered metals

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.

Hazardous decomposition products formed under fire conditions. - Oxides of phosphorus

Other decomposition products - no data available

**11. Toxicological Information**

(Referring to phosphoric acid)

**Acute Toxicity:** orl-rat LD50:1.25 g/kg

ihl-rat LC50:25.5 mg/kg

**12. Ecological Information**

No data are available on the adverse effects of this material on the environment.

**13. Disposal Considerations**

(Referring to phosphoric acid)

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

**14. Transport Information**

(Referring to phosphoric acid)

**Hazards Class:** 8: Corrosive.

**UN-No:** 1805

**Proper shipping name:** Phosphoric acid, solution

**Packing group:** III

## 15. Regulatory Information

(Referring to phosphoric acid)

**ISHL(Article 57-2):** Dangerous or Harmful Substances Subject to Be Notified their Names, etc.

**ENCS:** Substance excepted from notification

**Law for safety of vessels:** Hazardous materials notification, Schedule form No.1 Corrosive substance

## 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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