

MATERIAL SAFETY DATA SHEET

Number: B-0001-L(E)
Date prepared: August 13, 2002
Date revised: May 30, 2006

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

Australian supplier:
Henry Shein Halas Dental Co., Ltd.,
Sydney – Head Office
44 O'Dea Ave, Waterloo, NSW 2017
Emergency Phone (02) 9697-6288
Fax (02) 9697 6250

2. Composition / Information on Ingredients

(% chemical components by WT)

Phosphoric acid (CAS 7664-38-2)	50-60%
Water (7732-18-5)	37
Aluminum (7429-90-5)	3

(See section 8 for exposure guidelines)

3. Hazards Identification

Emergency Overview:
Acidic odor, slightly yellowish liquid.
Corrosive: irritation to upper respiratory tract, skin and eyes.

Potential Health Effects
Eye: May cause chemical irritation.
Skin: May cause skin irritation.
Ingestion: Irritant, slightly toxic.
Inhalation: Irritant, slightly toxic.

4. First Aid Measures

Eyes:
Flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.
Skin: Flush skin with plenty of soap and water for at least 15 minutes.
Ingestion: Do not induce vomiting. Give plenty of water. Get medical attention if necessary.
Inhalation:
Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical attention.

5. Fire Fighting Measures

Flammable Properties

Flash Point: Not flammable in usual handling

Flammable Limits: No data

Auto Ignition Temperature: No data

Hazardous Combustion Products: May decompose to release oxygen and toxic fumes around 400C.

Extinguishing Media: Chemical foam, carbon dioxide, and dry chemical

Fire Fighting Instructions: Firefighters should wear full protective clothing and approved self-contained breathing apparatus with full face piece operated.

6. Accidental Release Measures

Spill Release Procedures:

Neutralize and collect on inert absorbent, and place into a suitable disposable container.

7. Handling and Storage

Handling: Keep container closed when not in use.

Storage:

Store in room temperature (4-25°C). Keep away from heat and high humidity. Use with adequate ventilation.

Other Precautions: Avoid direct contact with skin or eyes.

8. Exposure Controls, Personal Protection

Respiratory Protection: Use a NIOSH or European standard approved respirator when necessary.

Skin Protection: Use protective gloves.

Eye Protection: Use tightly sealed goggles.

Exposure Guideline(s):

OSHA PEL: 1mg/M3

ACGIH TLV: 1mg/M3

Engineering Controls: Use adequate general or local exhaust ventilation.

9. Physical and Chemical Properties

Appearance: Slightly yellowish liquid

Odor: Acidic odor

Boiling Point: 212 C

Melting /Freeze Point: 212 C

Vapor Pressure: 0.03

Vapor Density: No data

Solubility in Water: Miscible

Specific Gravity: 1.4

pH: 2

Volatile: No data

10. Stability and Reactivity

Stability: Stable

Incompatibility: React with metals and will liberate hydrogen gas.

Hazardous Decomposition Products: Phosphoric acid fumes.

Hazardous Polymerization: Non

11. Toxicological Information

Phosphoric acid (CAS 7664-38-2)

LC50: 1217 g/M3/1H Inhalation, rat

LD50: 1530 mg/kg Oral rat

Additional toxicological information:

Carcinogenicity Inds: NTP- No IARC- No OSHA-No

Not a teratogen, reproductive toxin, embryo toxin or sensitizer.

12. Ecological Information

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

13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

14. Transport Information

IMO Regulations:

Not applicable according to the criteria specified in the regulations.

ICAO and IATA Regulations:

Not applicable according to the criteria specified in the regulations.

15. Regulatory Information

Not available

16. Other Information

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