

**GC ELITE CEMENT 100 – POWDER**  
**MATERIAL SAFETY DATA SHEET****SECTION 1 - SOURCE/IDENTITY/USE INFORMATION****DISTRIBUTOR**

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**TRADE NAME:** GC Elite Cement 100 - Powder**CHEMICAL NAME:** N.A.**PRODUCT USE:** Zinc phosphate cement used for cementation of crowns, bridges and inlays – powder component.

*The following information is provided with regard to the toxicity and hazards of the pure components present in this product.*

**SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Zinc Oxide	1314-13-2	TLV = 10mg/m <sup>3</sup> (dust) PEL = 5mg/m <sup>3</sup>	LD50=7.9g/kg LC50= N.E.	80-90

**SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**

<b>BOILING POINT:</b>	N.A.	<b>SPECIFIC GRAVITY:</b>	5.68
<b>VAPOR PRESSURE:</b>	N.E.	<b>MELTING POINT:</b>	1800°C
<b>VAPOR DENSITY:</b>	N.E.	<b>EVAPORATION RATE:</b>	N.A.
<b>SOLUBILITY IN WATER:</b>	Slightly miscible	<b>ODOR THRESHOLD:</b>	N.A.
<b>COEFFICIENT OF OIL/WATER DISTRIBUTION:</b>	N.E.	<b>APPEARANCE AND ODOR:</b>	White/yellow fine powder. Odorless

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** Not flammable/not combustible      **FLAMMABLE LIMITS:** N.A.  
**EXTINGUISHING MEDIA:** Chemical foam, carbon dioxide, and dry chemical  
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear full protective gear including NIOSH approved self-contained breathing apparatus.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Zinc Oxide when heated to very high temperatures decomposes to produce toxic fumes.  
**HAZARDOUS COMBUSTION PRODUCTS:** Toxic fumes

**SECTION 5 - REACTIVITY DATA**

**STABILITY:**      Stable       Unstable   
**POLYMERIZATION:**      Will Not Occur       Will Occur

**CONDITIONS TO AVOID:** Keep away from heat and high humidity.**INCOMPATIBILITY (Materials To Avoid):** Avoid chlorinated rubber, magnesium, strong acids and bases.**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** N.E.**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION**

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY		X						
SENSITIZER		X						



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## SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION - continued

ROUTES OF ENTRY: Inhalation  Skin  Ingestion

**HEALTH HAZARD: (Acute and Chronic):** Contact may be slightly irritating to eyes or skin. No cumulative effects known for long-term exposure. Dermatitis can occur in cases where there is prolonged exposure to zinc oxide dust.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** N.E.  
**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** N.A.

### EMERGENCY FIRST AID PROCEDURES:

- INHALATION:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
- EYE CONTACT:** Flush with water for 15 minutes. If irritation persists or develops seek medical attention.
- SKIN CONTACT:** Wash with soap and water. If irritation persists or develops seek medical attention.
- INGESTION:** Give several glasses of water. If large amounts were swallowed, seek medical attention.

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

- IN CASE OF RELEASE OR SPILL:** Vacuum or sweep up material and place into a suitable disposable container.
- WASTE DISPOSAL METHOD:** Dispose of in a manner consistent with federal, state, and local regulations.
- STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Keep container closed when not in use. Store at room temperature. Keep away from heat and high humidity. Use with adequate ventilation. Minimize dust generation and accumulation.

## SECTION 8 - CONTROL MEASURES

- RESPIRATORY PROTECTION:** Reduce exposure in accordance with good hygiene practice. If exposure limits are exceeded, use MSHA-NIOSH approved respirator for dusts, mists, fumes.
- VENTILATION:** Local Exhaust: Recommended Mechanical: N.E. Special: N.E. Other: N.E.
- PROTECTIVE GLOVES:** Recommended
- EYE PROTECTION:** Use tightly sealed goggles.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eye wash station.
- WORK/HYGIENIC PRACTICE:** Avoid contact with clothing; may stain.

## 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*

**DATE:** 09 January 2006  
**REVIEWED:** 20 January 2009

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N.A. = NOT APPLICABLE  
N.E. = NOT ESTABLISHED

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

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FIRE - 0	TOXICITY - 1	NFPA REACTIVITY - 0	SPECIAL ---
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