

<b>PRIMA DENTAL GROUP</b>	<b>MATERIAL SAFETY DATA SHEET</b>	<b>MSDS 72372</b> Page 1 of 4
	<b>Zinc Cement Improved Powder &amp; ZCI Liquid</b>	Rev.4. 09/04/2013

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Type : Dental Cement

Use: Filling of teeth and cementing of crowns and orthodontic devices

Supplier: Prima Dental Group  
Stephenson Drive  
Gloucester  
GL2 2HA.United Kingdom  
+44 1452 729751  
+44 1452 307187  
[FredD@primadentalgroup.com](mailto:FredD@primadentalgroup.com)

Emergency Contact Number +44 1452 729751 (Office Hours)

## 2. HAZARDS IDENTIFICATION

Primary Hazard: Liquid – Corrosive  
Powder - None

Secondary Hazard: None

## 3. COMPOSITION OF PRODUCT

Mixture of substances listed below with non-hazardous additions.

CHEMICAL	Cas.no	%w/w	Class
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LIQUID - Ortho-Phosphoric Acid	7664-38-2	<35.0	Corrosive
All other ingredients are non-hazardous			

POWDER - All ingredients are non-hazardous

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## 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen

Skin Contact: Contact with liquid may cause severe irritation; wash from skin immediately with plenty of cold water.

Eye Contact: Liquid is severely irritant to eyes, rinse immediately with copious amounts of cold water and seek medical assistance. Powder may be irritant to eyes, rinse immediately with copious amounts of cold water and seek medical assistance.

Ingestion: Liquid is irritant to buccal and intestinal mucosa; rinse mouth with cold water and seek medical assistance if large amounts are ingested.

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## 5. FIRE FIGHTING MEASURES:

Extinguishing Media: *Any Media*  
Fire Fighting Techniques: *No specific techniques.*  
Explosion Hazard: *None*

## 6. ACCIDENTAL RELEASE MEASURES:

*Dilute spillage with plenty of cold water and mop up. Rinse mops and flush moppings down foul drain with further dilution. Mops made from natural fibres may decompose and should be rinsed and bagged for disposal.*  
*Contain powder and transfer to suitable containers for disposal.*  
*Wear PPE as indicated below.*

## 7. HANDLING & STORAGE

Handling: *Avoid inversion of liquid bottles.*  
Storage: *Store above freezing point and below 30 degrees.C.*

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Workplace Exposure Limits:

CHEMICAL: OES:

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ZCI Powder 10mg/M3 (LTEL)  
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Engineering Controls : *None applicable*

Respiratory Protection: *None applicable*

Eye Protection: *Wear safety Glasses*

Hand/Skin Protection: *Wear neoprene or PVC gloves*

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical Form: *Powder/liquid chemically cured cement*

Density *Liquid – 1.62 g/ml. Powder 5.47 g/ml*

Appearance/Colour: *Clear viscous liquid and off-white dense powder*

Odour: *Liquid has slight acid odour*

Solubility: *Liquid is soluble in water*

pH: 3      MPt.: N/A      BPt.: 105°C      FPt.: N/A

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## 10. STABILITY AND REACTIVITY

Stability: *Inherently stable.*

Incompatible With: *N/A*

Decomposition Products: *LIQUID - water and solid residue*  
*POWDER - May sublime under extreme heat*

## 11. TOXICOLOGICAL INFORMATION

There is no toxicological data specific to this product.

Toxicity By Inhalation: *N/A*

Toxicity By Skin Contact: *LIQUID- Highly Irritant*

Toxicity By Eye Contact: *LIQUID- Highly Irritant*

Toxicity By Ingestion: *LIQUID-Irritant to Intestinal mucosa*

Sensitisation: *N/A*

Carcinogenicity: *N/A*

Mutagenicity: *N/A*

## 12. ECOLOGICAL INFORMATION

*None applicable*

## 13. DISPOSAL CONSIDERATIONS

*This material can be safely disposed of in land-fill or in small quantities by dilution to foul drainage (liquid).*

## 14. TRANSPORT INFORMATION

UN No.: *Powder –None*  
*Liquid – 1805*

CAS No. *Powder- None*  
*Liquid – 7664-38-2*

CHIPS CLASSIFICATION FOR SUPPLY: *Powder –None / Liquid - Corrosive*

CHIPS CLASSIFICATION FOR CARRIAGE: *Powder –None / Liquid - Corrosive*

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## 15. REGULATORY INFORMATION

Health Classification: *Powder –None / Liquid – Corrosive*



Environmental Classification - *None*

Fire Classification: - *None*

Risk Phrases: *Liquid - R22 - Harmful if swallowed  
R34 - Causes burns  
R41 - Risk of serious damage to eyes*

Safety Phrases: *Liquid- S2 Keep out of reach of children  
  
S20/21 When using do not eat, drink or smoke  
  
S24/25 Avoid contact with skin or eyes  
  
S26 In case of contact with eyes, rinse  
Immediately, with plenty of water and seek  
medical attention  
  
S27 Take off immediately all contaminated  
Clothing  
  
S28 After contact with skin wash immediately  
with plenty of soap and water  
  
S46 If swallowed seek medical advice  
immediately and show the container or  
label*

## 16. OTHER INFORMATION AND REFERENCES

The Chemicals (Hazard Information and Packaging) Regs. 1996  
The Control of Substances Hazardous to Health Regulations 2002  
European Commission Directives 67/548/EEC, 91/155/EEC and 2001/58/EC  
HSE guidance on Occupational Exposure Limits (current edition)