



PREVEST DENPRO LIMITED

Reg. Office : 38, Industrial Estate, Digiana, Jammu-180010, India
Unit II, EPIP, Bari Brahmana, Jammu-181133, India
Phones : +91 1923 222774, 222779, Fax : 222779
Web : www.prevestdenpro.com, E-mail : info@prevestdenpro.com

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zinc F + - Zinc Phosphate Cement

INTENDED USE: Cementation of crowns & bridges, inlays and orthodontic Brackets.

Company Name: Prevest Denpro Limited

Address: 38, Industrial Estate, Digiana, Jammu-180010 (India)

Tel: + 91-191-2430442

Fax No. +91-191-2430442

Email: info@prevestdenpro.com

Web: www.prevestdenpro.com

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:			
CAS: 7664-38-2	Phosphoric acid	C; R 34	50-100%
EINECS: 231-633-2			

Additional information For the wording of the listed risk phrases refer to section 16.

SECTION 3: HAZARDS IDENTIFICATION

Hazard description : C Corrosive

Information concerning to particular hazards to man and environment

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. R 34 Causes burns

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

SECTION 4: FIRST AID MEASURES

General information : Immediately remove any clothing soiled by the product
After inhalation : Void
After skin contact : Immediately wash with water and soap and rinse thoroughly
After eye contact : Rinse opened eye for several minutes under running water. Then consult a doctor
After swallowing : Drink plenty of water and provide fresh air. Call for a doctor immediately.



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SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing agents

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents Water with full jet

Protective equipment: no special measures required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Person-related safety precautions** : Wear protective clothing
- Measures for environmental protection** : Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.
- Measures for cleaning / collecting** : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13.

SECTION 7: HANDLING AND STORAGE

- Handling** : Product is intended for dental use only.
- Information for safe handling** : Observe normal care for working with chemicals.
- Information about fire** : and explosion protection: No special measures required.

Storage

- Requirements to be met by storerooms and receptacles** : Store only in the original receptacle
- Information about storage in one common storage facility**: Not required.
- Further information about storage conditions** : Keep receptacle tightly sealed

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities : No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:	
7664-38-2 phosphoric acid	
OEL	Short-term value: 3mg/m ³ Long-term value: 1 mg/m ³

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuff, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.



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Avoid contact with eyes and skin

- **Respiratory protection:** Not required
- **Protection of hand.**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection** : Tightly sealed goggles
- **Body protection** : Protective work clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

General Information	
Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
· Change in condition	
Melting point/Melting range: undetermined	
Boiling point/Boiling range: 213°C	
· Flash point:	Not applicable
· Self-igniting:	Product is not selfigniting.
Danger of explosion: Product does not present an explosion hazard.	
Density at 20°C:	1.88 g/cm ³
Solubility in / Miscibility with	
Water:	Fully miscible

SECTION 10: STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided : No decomposition if used according to specifications.



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Materials to be avoided:

Dangerous reactions : No dangerous reactions known
Dangerous decomposition products : No dangerous decomposition product known.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:

· LD/LC50 values relevant for classification:			
7664-38-2 phosphoric acid			
Oral	LD50	1530 mg /kg(rat)	
Dermal	LD50	2740 mg/ kg(rabbit)	

· Primary irritant effect:

· **on the skin** : Caustic effect on skin and mucous membranes.
· **on the eye** : Strong caustic effect.
· **Sensitization** : No sensitizing effects known.

· Additional toxicological informations:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
Corrosive Swallowing will lead to a burning respectively to a caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

SECTION 12: ECOLOGICAL INFORMATION

Additional ecological information:

General notes : Water hazard class 1 (German Regulation)(Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralized.

SECTION 13: DISPOSAL CONSIDERATIONS

Product

· Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· **Recommendation** : Disposal must be made according to official regulations.



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· **Recommended cleansing agents :** Water, if necessary together with cleansing agents.

SECTION 14: TRANSPORT INFORMATION

· **Land transport ADR/RID (cross-border)**



ADR/RID class : 8 (CI) Corrosive substances
Danger code (Kemler) : 80
UN-Number : 1805
Packaging group : III
Hazard label : 8
Description of goods : 1805 PHOSPHORIC ACID, SOLUTION
Excepted quantities (EQ) : E1
Limited quantities (LQ) : LQ7
Transport category 3
Tunnel category E
Maritime transport IMDG:



IMDG Class : 8
UN Number : 1805
Label : 8
Packaging group : III
EMS Number : F-A,S-B
Marine pollutant : No
Segregation groups : acids

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class : 8
UN/ID Number : 1805
Label 8
Packaging group : III



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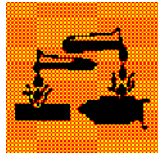
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Proper shipping name: PHOSPHORIC ACID, SOLUTION

SECTION 15: REGULATORY INFORMATION

Labelling according to EU guidelines : The product has been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials

Code Letter and hazard designation of product:



C Corrosive

Hazard-determining components of labeling : Phosphoric acid

Risk phrases : 34 Causes burns

Safety phrases : 20 When using do not eat or drink

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60 This material and its container must be disposed of as hazardous waste,

National regulations

Waterhazard class : water hazard class 1 (self-assessment): slightly hazardous for water.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.

Relevant R-phrases

34 Causes burns