

SAFETY DATA SHEET

SECTION 1. Product and Company Identification

PRODUCT NAME: Zinc Phosphate Cement Powder

COMMON OR CHEMICAL NAME: Zinc Phosphate Cement Powder

MANUFACTURED BY:

Dentonics, Inc.
2833 Tophill Rd.
Monroe, NC 28110
USA

EMERGENCY TELEPHONE:

800-727-4737

GENERAL INFORMATION:

704-238-0245

SECTION 2. Composition/Information on Ingredients

Product Contents: Zinc Phosphate Cement Powder

Hazardous Ingredients: None listed.

SECTION 3. Hazards Identification

For potential health hazards: SEE Section 11 below

No other hazards to man or the environment are reasonably foreseen.

SECTION 4. First Aid Measures

Inhalation: Provide fresh air.

Skin Contact: Not harmful. Wash with soap and water.

Eye Contact: Flush with copious amounts of water.

Ingestion: None.

SECTION 5. Fire-Fighting Measures

Suitable Extinguishing Media: Not applicable.

Extinguishing Media which should not be used: Not applicable.

Special exposure hazards from combustion products: None.

Special protective equipment for fire fighters: None.

SECTION 6. Accidental Release Measures

Personal Precautions: None.

Environmental Precautions: Dispose of in accordance with all federal, state, and local regulations.

Methods for Cleaning Up: Wipe or sweep up.

SECTION 7. Handling and Storage

Handling Precautions: None.

Safe Storage Conditions: Keep bottles tightly closed and stored away from volatile materials when not in use.

Other Restrictions or Recommendations: None.

SECTION 8. Exposure Controls/Personal Protection

Respiratory Protection & Ventilation: MIOSH/MSHA approved mask/dust mask. Mechanical ventilation recommended.

Protective Clothing or Equipment: Gloves.

Unusual Work/Hygienic Practices: None.

SECTION 9. Physical and Chemical Properties

Appearance: Fine powder.

Odor: None.

pH: Not applicable.

Boiling Point/Range: Not applicable.

Melting Point/Range: Not applicable.

Flash Point: Not applicable.

Auto-Ignition Temperature: Not applicable.

Flammability: Not applicable.

Explosive Limits in Air: Not applicable.

Oxidizing Properties: Not available.

Vapor Pressure (mm Hg): Not applicable.

Vapor Density (Air=1): Not applicable.

Specific Gravity (H₂O =1): 5.3 @ 68°F

Solubility in Water: None.

Reactivity in Water: None.

Other Data: None.

SECTION 10. Stability and Reactivity

Stability: Stable.

Conditions of Instability: None.

Incompatibility with Various Substances: Not applicable.

Hazardous Decomposition Products: Cannot occur.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None.

SECTION 11. Toxicological Information

Potential Acute Health Effects: May cause slight discomfort to skin or eyes.

Potential Chronic Health Effects: May cause irritation to skin or eyes. May cause irritation of nasal respiratory passages if inhaled.

Signs and Symptoms of Exposure: Eye discomfort.

Medical Conditions Generally Aggravated by Exposure: None known.

Carcinogenic or Potential Carcinogenic Effects: No ingredient is a known carcinogen.

Other Potential Health Effects: None.

SECTION 12. Ecological Information

No ecological damage or impact anticipated when handled as indicated.

SECTION 13. Disposal Considerations

Waste Disposal: May be disposed of in a landfill. Dispose of in accordance with all federal, state, and local regulations.

SECTION 14. Transport Information

UN Classification: Not applicable.

Identification: Not applicable.

Special Provisions for Transport: None.

SECTION 15. Regulatory Information

U.S. FDA Dental Device: Class II product

EC Medical Device Directive: Class IIa product

SECTION 16. Other Information

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources that we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or method of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. If the product is used as a component in another product or used in a way other than recommended by the Company, this SDS information may not be applicable.

SDS Approved by: **Randy Leander**

SAFETY DATA SHEET

SECTION 1. Product and Company Identification

PRODUCT NAME: Zinc Phosphate Cement Liquid

COMMON OR CHEMICAL NAME: Zinc Phosphate Liquid

MANUFACTURED BY:

Dentonics, Inc.
2833 Tophill Rd.
Monroe, NC 28110
USA

EMERGENCY TELEPHONE:

800-727-4737

GENERAL INFORMATION:

704-238-0245

SECTION 2. Composition/Information on Ingredients

Product Contents: Zinc Phosphate Cement Liquid

Hazardous Ingredients: Phosphoric Acid

Proper Shipping Name: Phosphoric Acid
CAS: 7664-38-2
UN Designation: UN-1805
Class: 8, Corrosive
Packing Group: III

HAZARDOUS DATA

Health: **2**
Flammability: **0**
Reactivity: **2**

Hazardous Data Legend:

4- Extreme
3- High
2- Moderate
1- Slight
0- Insignificant

SECTION 3. Hazards Identification

For potential health hazards: SEE Section 11 below

No other significant critical hazards to man or the environment are reasonably foreseen.

SECTION 4. First Aid Measures

Inhalation: May cause burns of mucous membranes and in severe cases, tissue damage. Medical attention is necessary if manifestation like coughing, chest pain, and breathing difficulties occur.

Skin Contact: Rinse with water. Prolonged contact may destroy tissue. Seek medical attention in case of serious irritations or burns.

Eye Contact: Immediately rinse with copious amounts of water. Seek medical attention as soon as possible.

Ingestion: Corrosive to mouth and throat. Serve milk if available or solution of sodium bicarbonate. Do not induce vomiting.

SECTION 5. Fire-Fighting Measures

Suitable Extinguishing Media: Non-flammable. Water contact acceptable if involved in fire from other sources.

Extinguishing Media which should not be used: None.

Special exposure hazards from combustion products: Can react with metals to liberate hydrogen gas, which is flammable.

Special protective equipment for fire fighters: None.

SECTION 6. Accidental Release Measures

Personal Precautions: Avoid contact with skin and eyes. Wear protective gloves, aprons, suits, and goggles when handling large quantities or if splashing and/or spills occur.

Environmental Precautions: Wear impervious clothing and goggles. Dilute with large amounts of water and dispose in DOT approved waste containers in accordance with all federal, state, and local regulations.

Methods for Cleaning Up: Wear impervious clothing and goggles. Neutralize with soda ash or lime. Dispose in accordance with federal, state, and local regulations.

SECTION 7. Handling and Storage

Handling Precautions: Avoid exposure to heat and close proximity of reactive materials and alkaline substances.

Safe Storage Conditions: Store in polyethylene, polypropylene or similar acid-resistant containers. Glass is permissible for small quantities. Store in a cool area.

Other Restrictions or Recommendations: None.

SECTION 8. Exposure Controls/Personal Protection

Respiratory Protection & Ventilation: Mucous membrane irritation may occur on contact.

Protective Clothing or Equipment: Wear gloves and protective clothing that are impervious to this product for the duration of anticipated exposure if there is potential for skin contact.

Unusual Work/Hygienic Practices: Avoid contact with skin and eyes. Wear protective gloves, aprons, suits, and goggles when handling large quantities or if splashing and/or spills occur.

SECTION 9. Physical and Chemical Properties

Appearance: Viscous liquid.

Odor: Virtually odorless.

pH: ~1

Boiling Point/Range: ~105°C

Melting Point/Range: ~105°C

Flash Point: Not applicable.

Auto-Ignition Temperature: Not applicable.

Flammability: No.

Explosive Limits in Air: Not applicable.

Oxidizing Properties: Not applicable.

Vapor Pressure (mm Hg): <760 mm Hg at 100°C

Vapor Density (Air=1): <1

Specific Gravity (H₂O =1): ~1.2

Solubility in Water: Soluble.

Reactivity in Water: Not reactive.

Other Data: None.

SECTION 10. Stability and Reactivity

Stability: Generally stable.

Conditions of Instability: Contact with alkaline and reactive materials.

Incompatibility with Various Substances: Reactive metals and alkaline substances.

Hazardous Decomposition Products: Phosphoric acid vapors and phosphoric oxides, if exposed to extreme heat.

Hazardous Polymerization: Not likely.

Conditions to Avoid: Contact with alkaline and reactive materials.

SECTION 11. Toxicological Information

Potential Acute Health Effects: Eye irritation upon contact. Skin irritation upon prolonged exposure.

Potential Chronic Health Effects: Possibility of severe skin/eye damage upon prolonged or repeated exposure.

Signs and Symptoms of Exposure: Skin/eye irritation.

Medical Conditions Generally Aggravated by Exposure: None known.

Carcinogenic or Potential Carcinogenic Effects: No ingredient listed as a carcinogen.

Other Potential Health Effects: None known.

SECTION 12. Ecological Information

No ecological damage or impact anticipated upon exposure to the environment in quantities as packaged.

SECTION 13. Disposal Considerations

Waste Disposal: Dispose in DOT approved containers after neutralizing with soda, ash, or lime. Dispose of in accordance with all federal, state, and local regulations.

SECTION 14. Transport Information

UN Classification: UN-1805

Identification: Phosphoric Acid

Special Provisions for Transport: SEE current Dangerous Goods Regulations

SECTION 15. Regulatory Information

U.S. FDA Dental Device: Class II product

EC Medical Device Directive: Class IIa product

SECTION 16. Other Information

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources that we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or method of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. If the product is used as a component in another product or used in a way other than recommended by the Company, this SDS information may not be applicable.

SDS Approved by: Randy Leander