MATERIAL SAFETY DATA SHEET

SECTION I - Product / Company Identification

Product Trade Name: ZINC PHOSPHATE CEMENT - POWDER

Part (Item) Number: 305-0201-001, 305-0301-001, 305-0401-001,305-0801-001

Manufacturer: DENTAL TECHNOLOGIES, INC.

Address: 6901 N. HAMLIN AVENUE

City, State, Zip: LINCOLNWOOD, IL. 60712 U.S.A.

Emergency Telephone Number: (800) 424-9300 / (703) 527-3887 (Chemtrec)

Information Telephone Number: (800) 835-0885 / (847) 677-5500

Date Revised: 11-Oct-2006 Rev. No. 002

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components: Concentration CAS NO. HAZ CODE RISK CODE

Zinc oxide 1314-13-2 N R 50, R 53

Magnesium oxide 1309-48-4

SECTION III - Hazards Identification

HAZARD CLASSIFICATION N Dangerous to the environment

SECTION IV - First Aid Measures

Skin: Not an irritant

Induce vomiting. Seek medical attention

Inhalation: Remove to fresh air. If breathing becomes difficult, contact a physician.

Eyes: Flush with plenty of water. Seek immediate medical attention by an Ophthalmologist.

SECTION V - Fire-fighting Measures.

Suitable extinguishing media: NA Forbidden extinguishing media: None.

Special firefighting measures: No special measures required

SECTION VI - Accidental Release Measures

Personal precautions: Follow some precautions of Section VII and personal protection in Section VIII

Environmental precautions: Keep spilled material out of sewers. Reclaiming methods: Pick up spilled material mechanically

SECTION VII - Handling and Storage

Handling: No special measures required

Storage: Room temperature. Incompatibilities No further data

Containers: Store in original containers.

Other precautions: Use by trained professionals only and according to directions.

SECTION VIII - Exposure Controls / Personal Protection

General measures: Local exhaust or general ventilation that will reduce airborne dust to less than permissible

exposure limits. Ventilation should not be directed to the work area to control airborne dust particulates. Local exhaust system is recommended over general ventilation system as it can control the emissions of the contaminants at its source, preventing dispersion into the

general work area.

Exposure limits: OSHA-PEL ACGIH-TLV

Zinc Oxide Total Dust 15 mg/m³ 10 mg/m³

Respirable dust 5 mg/m³ 5 mg/m³
Magnesium Oxide Total Dust 15 mg/m³ 10 mg/m³

General protective measures: Follow the usual precautionary measures for handling chemicals and good

personal hygiene practice.

Respiratory protection: Normally none required. If handling material for extended periods of time with dust conditions,

wear NIOSH/MSHA-approved type respirator.

Eye protection: Safety glasses or goggles.

Hands protection: Normally none required. If handling material for extended periods of time use of impervious

gloves is recommended.

Skin protection: Light weight protective clothing

Other equipment: Lab coat over clothing recommended.

SECTION IX - Physical and Chemical Properties

Appearance: Powder Explosion limits: Not an explosion hazard

ColorWhite to yellowishWater solubility:InsolubleOdorNoneEvaporation rate:Not determinedBoiling point:Not determinedDensityNot determined

Flash point Not applicable

SECTION X - Stability and Reactivity

Stability: Stable if stored as directed.

Conditions to avoid None

Materials to avoid None known

Hazardous decomposition products: None

Hazardous polymerization products: Will not occur

SECTION XI - Toxicological Information

Ingestion: Inhalation of dust may be an irritant to pre-existing respiratory conditions. Eye contact: Like any fine particulate matter, may cause mechanical irritation to eyes. Skin contact: Like any fine particulate matter, may cause mechanical irritation to skin. Inhalation: Inhalation of dust may be an irritant to pre-existing respiratory conditions.

Prolonged exposure: Not established.

SECTION XII - Ecological Information

Toxic to fish and other aquatic organisms

Avoid releasing the product into environment, ground water and sewage system.

SECTION XIII -**Disposal Considerations**

Do not dispose together with household garbage. Do not allow product to reach sewage system. Dispose in accordance with Federal, State and local environmental regulations.

SECTION XIV-Transport Information

DOT Hazard Class: Not listed UN No.: No applicable information found

SECTION XV -**Regulatory Information**

CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES.

Hazard Classification Symbol: Ν Dangerous fo the environment Risk statements R 50 Toxic to aquatic organisms

> R 53 May cause long-term adverse effects in the aquatic

> > environment

Do not breath dust Safety Statements S22

SECTION XVI -Other Information

NFPA Hazard

Classification: **HMIS Hazard Classification:**

Health **Flammability** Reactivity

Specific Hazard / PPE

0	0
0	0
0	0
N/A	N/A

NFPA -National Fire Protection Association

N/A Not Applicable N/E Not Established

CAUTION: PRODUCT FOR PROFESSIONAL USE ONLY.

The above information is based on presently available data and to our best knowledge for handling the product under normal conditions. Any use of this product in any way not indicated on this document or using it together with any other process/procedure will be exclusively under the user's responsibility.

MATERIAL SAFETY DATA SHEET

SECTION I -**Product / Company Identification**

Product Trade Name: ZINC PHOSPHATE CEMENT - LIQUID

Part (Item) Number: 305-0101-001

Manufacturer: DENTAL TECHNOLOGIES, INC. Address: 6901 N. HAMLIN AVENUE

City, State, Zip: LINCOLNWOOD, IL. 60712 U.S.A.

Emergency Telephone Number: (800) 424-9300 / (703) 527-3887 (Chemtrec)

Information Telephone Number: (800) 835-0885 / (847) 677-5500 Date Revised: 13-Oct-2006 Rev. No. 002

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components: Concentration CAS NO. HAZARD CODE RISK CODE

Phosphoric acid [7664-38-2] **C** R21, R22, R34

SECTION III - Hazards Identification

HAZARD CLASSIFICATION C - Corrosive

SECTION IV - First Aid Measures

Skin: Immediately wash the affected skin with plenty of water and soap while removing

contaminated clothing and shoes. Rinse thoroughly. Wash clothing before reuse.

Ingestion: Do not induce vomiting. Drink plenty of water. Seek medical help immediately.

Inhalation: Inhalation is not an expected hazard..

Eyes: Wash open eye with running water for 15 minutes. Seek immediate medical attention by

an Oppthalmologist.

SECTION V - Fire-fighting Measures.

Suitable extinguishing media: Carbon dioxide, water spray,

Unsuitable extinguishing media: Water with strong full jet (not sprayed) can move and spread the material.

Special firefighting measures: No special measures required

SECTION VI - Accidental Release Measures

Personal precautions: See handling precautions of Section VII and personal protection in Section VIII

Environmental precautions: Keep spilled material out of sewers.

Reclaiming methods: Absorb with liquid absorbent material such as sand, sawdust, acid binders,

diatomite, etc. Neutraslize acid before disposal as hazardous waste.

SECTION VII - Handling and Storage

Handling: Follow normal procedures for handling chemicals.

Storage: Room temperature. Incompatibilities No further data

Containers: Store in original containers, keep all containers tightly closed. Use by trained professionals only and according to directions.

SECTION VIII - Exposure Controls / Personal Protection

Exposure limits: OSHA-PEL ACGIH-TLV

TWA STEL TWA STEL 1 mg/m^3 3 mg/m^3 1 mg/m^3 3 mg/m^3

General ventilation: Local or general exhaust system is recommended to keep personnel

exposures below the exposure limits.

General protective measures: Follow the usual precautionary measures for handling chemicals and exercise

good personal hygiene practice. Avoid contact with skin and eyes.

Respiratory protection:

Eye protection:

None required in normal use.

Use safety glasses or goggles.

Hands protection: Use of non-permeable gloves is recommended

Skin protection: Light weight protective clothing

Other equipment: Lab coat over clothing is recommended.

SECTION IX - Physical and Chemical Properties

Appearance: Syrupy liquid Explosion limits: Not an explosion hazard

Color Colorless Water solubility: Fully miscible

Odor Odorless Evaporation rate: NA
Boiling point: No data Specific gravity range: 1.5 - 1.8

Flash point Not applicable

Phosphoric acid

SECTION X - Stability and Reactivity

Stability: Stable if stored as directed.

Conditions to avoid N/A

Materials to avoid Strong caustics, metals,
Hazardous decomposition products: Fumes of phosphorous oxide

Hazardous polymerization products: Will not occur

SECTION XI - Toxicological Information

Ingestion: Corrosive. May cause sore throat, abdominal pain, nausea, severe burns to mouth, throat,

upper respiratory tract, and stomach.

Eye contact: Corrosive. May cause redness, pain, blurred vision, eye burns.

Skin contact: Corrosive. May cause redness, pain, skin burns. Inhalation: Not an inhalation hazard under normal use.

Prolonged exposure: No information founmd.

SECTION XII - Ecological Information

Slightly hazardous for water.

SECTION XIII - Disposal Considerations

Do not allow undiluted product or large quantities to reach ground water, or sewage system.

Dike and cover spilled liquid with dirt, vermiculite or other inert absorbent. Cover spill with sodium bicarbonate and mix to neutralize. Neutralized waste must be disposed of in an approved disposal facility.

Dispose containers and unused contents in accordance with Federal, State and local environmental regulations.

SECTION XIV - Transport Information

Land transport

DOT Hazard Class: Corrosive

Class 8
UN No 1805
Packaging group III
Hazard label 8

Description of goods 1805 Phosphoric acid mixture

Air transport

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

Shipping name: Phosphoric Acid, Liquid mixture

Maritime transport

Class: 8
UN Number: 1805
Packaging group III
EMS Number F-A,S-B
Marine pollutant: No

Shipping name: Phosphoric Acid, Liquid mixture

SECTION XV - Regulatory Information

CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES.

Hazard Classification Symbol: C Corrosive

Risk statements R 21 Harmful in contact with skin

R 22 Harmful if swallowed

R 34 Causes burns

Safety Statements S 24 Avoid contact with skin

S 25 Avoid contact with eyes.

S 26 If eye is contacted rinse immediately with water. Seek medical advice.

SECTION XVI - Other Information

	NEFA Hazaiu	HIVIIO HAZAIU
	Classification	Classification
Health	3	3
Flammability	0	0
Reactivity	0	0
Specific Hazard / PPE	Corr	В

NFPA - National Fire Protection Association

HMIS - Hazardous materials Identification System

N/A - Not Applicable
N/E - Not Established

CAUTION: PRODUCT FOR PROFESSIONAL USE ONLY.

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