



Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

Document Number: SDS 064.002
Date Revised: 09/15/2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name (as labeled): Alpha-Cal® Calcium Hydroxide Paste
Part/Item Number: 414-0000-002; 414-0200-002

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Recommended Use: Dental Cavity Liner
Restrictions on Use: For Professional Use Only

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name: Dental Technologies, Inc.
Manufacturer/Supplier Address: 6901 N. Hamlin Avenue
Lincolnwood, IL 60712
Manufacturer/Supplier Telephone Number: 800-835-0885 or 847-677-5500 (Product Information)
Email address: info@dentaltech.com

1.4 Emergency Telephone Number:

Emergency Contact Telephone Number: 800-424-9300 Chemtrec

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

GHS Classification:		
Health	Environmental	Physical
Corrosive (C) Skin Corrosion, Category 2	Not Hazardous	None known

EU Classification: Corrosive (C), Irritant (Xi), R34, R36/38

2.2 Label Elements:



Corrosive

Signal Word: Danger

Hazard Phrases	Precautionary Phrases
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H314 Causes severe skin burns and eye damage.	<p>P280 Wear protective gloves, protective clothing, eye protection, and face protection.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P313: Get medical attention.</p> <p>P312: IF ON SKIN:</p> <p>P315: Get immediate medical advice/attention.</p> <p>P351: Rinse cautiously with water for several minutes.</p> <p>P362: Take off contaminated clothing and wash before reuse.</p> <p>P301: IF SWALLOWED:</p> <p>P310: Immediately call POISON CENTER or doctor/physician.</p> <p>P331: Do NOT induce vomiting.</p> <p>P501: Dispose of contents and container in accordance with local and national regulations.</p>
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2.3 Other Hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture:

Hazardous Components	C.A.S. #	EINECS #	Classification	WT %
Calcium Hydroxide	1305-62-0	215-137-3	C; R34	35-50%
Barium Sulfate	7727-43-7	231-784-4	Xi; R36/38	20-30%

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS and EU Classifications.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye	Immediately flush victim's eyes with large quantities of water for 15 minutes, holding the eyelids apart. Have eyes examined and tested by medical personnel.
Skin	Remove contaminated clothing. Immediately flush skin with plenty of water. Get medical attention immediately. Launder clothing separately before re-use.
Inhalation	No specific treatment is necessary since this material is not likely to be hazardous inhalation.
Ingestion	Rinse out mouth with water. DO NOT induce vomiting. Give victim a glass of water or milk. Call a physical or poison control center. Never give anything by mouth to an unconscious person.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

Causes eye burns. Causes skin burns. Ingestion of this material can cause mouth, throat, esophageal, and gastrointestinal tract irritation. Inhalation is not expected for this product.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

Corrosive.

Note to Physicians (Treatment, Testing, and Monitoring): Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: See Fire Fighting Equipment under Section 5.3.

5.2 Special Hazards Arising from the Substance or Mixture:





None known.

5.3 Advice for Fire-Fighters:

Fire Fighting Procedures: General: Evacuate all personnel; use protective equipment for firefighting.

Precautions for Fire Fighters: Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.

Recommended Protective Equipment for Fire Fighters:



EYES/FACE	HANDS	RESPIRATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing as described in Section 8.

Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

6.2 Environmental Precautions:

Prevent entry into sewers and waterways. Report releases as required by local, state, and national authorities. Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing as described in Section 8.

6.3 Methods and Material for Containment and Cleaning up:

Clean up with absorbent material and remove residue with alcohol damp wipe. Rinse spill area with water.

6.4 Reference to Other Sections:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid contact with the eyes, skin and clothing. Wear protective clothing and equipment as described in Section 8. Wash thoroughly after handling. See product labeling.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool-dry place. See product labeling.

7.3 Specific End Use (s): For professional use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: Not determined.

8.2 Exposure Controls:



Individual Protection Measures (PPE)

Specific Eye/face Protection: Chemical safety goggles should be worn if needed to avoid eye contact.

Specific Skin Protection: Wear impervious gloves such as natural rubber or neoprene if needed to avoid skin contact. Consult glove supplier for thickness and breakthrough times.

Specific Respiratory Protection: None should be needed under normal use. Good ventilation should be sufficient.

Recommended Personal Protective Equipment

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance:	White paste	Explosive limits:	Not Applicable.
Odor:	Odorless or no characteristic odor	Vapor pressure (mmHg):	Not Applicable.
Odor threshold:	Not determined	Vapor density:	Not Applicable.
pH:	12.0 – 13.0	Percent Volatile:	Not Volatile.

9.2 Other Information: None available

10. STABILITY AND REACTIVITY

10.1 Reactivity: None known.

10.2 Chemical Stability: Stable.

10.3 Possibility of Hazardous Reactions: Contact with acids liberates toxic gas.

10.4 Conditions to Avoid: Acidic conditions. Heat will dry up the paste.

10.5 Incompatible materials: Avoid acids and oxidizing materials.

10.6 Hazardous Decomposition Products: When heated to decomposition, caustic calcium oxide and sulfur oxide forms.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eyes: May cause moderate irritation with redness, tearing and blurred vision.

Skin: Prolonged or repeated contact may cause mild skin irritation redness, rash and swelling.

Ingestion: Ingestion may cause irritation to the mouth, throat and stomach with abdominal pain and nausea. May cause gastrointestinal irritation and central nervous system depression with symptoms similar to those described under inhalation.

Skin: Repeated or prolonged contact may cause irritation, drying, defatting of the skin and dermatitis.

Ingestion: Ingestion of large amounts may cause gastrointestinal upset.

Inhalation: Not an inhalation hazard in the paste form. When dried, powder may cause respiratory tract irritation.

Chronic Health Effects: Device is biocompatible when used as directed by dental professionals per ISO 10993-1.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: Not Determined.

12.2 Persistence and Degradability: Not Determined.

12.3 Bio-accumulative Potential: Not Determined.

12.4 Mobility in Soil: Not Determined.

12.5 Results of PBT and vPvB Assessment: Not Determined.

12.6 Other Adverse Effects: Not Determined.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Regulations: Dispose in accordance with all national and local regulations.

14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
DOT	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
ADR/RID	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
IMDG	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
IATA/ICAO	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.6 Special Precautions for User: Not applicable.

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture: Please refer to Medical Device Directive 93/42/EEC.

15.2 Chemical Safety Assessment: None required.

16. OTHER INFORMATION

HMIS Hazard Rating:

Health –2 Flammability – 0 Reactivity – 0

Full text of Classification abbreviations used in Section 2 and 3:

C Corrosive

Xi Irritant

R34 Causes burns

R36/38 Irritating to eyes and skin

P280 Wear protective gloves, protective clothing, eye protection, and face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P313 Get medical attention.

P312 IF ON SKIN:

P315 Get immediate medical advice/attention.

P351 Rinse cautiously with water for several minutes.

P362 Take off contaminated clothing and wash before reuse.

P301 IF SWALLOWED:

P310 Immediately call POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P501 Dispose of contents and container in accordance with local and national regulations.

Supersedes: January 22, 2007

Date updated: September 15, 2015

Change Control Document #: DCN4720

Revision Summary: September 15, 2015: Converted MSDS to Reach SDS. Updated all sections.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.

Manufacturer disclaimer:

FOR DENTAL USE ONLY. The information and recommendations are taken from sources (raw material MSDS(s), SDS(s) and manufacturers knowledge) believed to be accurate; however, the manufacturer makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.