



MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Dentsply® Lab Plaster, Regular & Fast Set
Product Number: 99210, 99211, 99212, 99213, 99214, 99215
MSDS Code Number: 138

Manufacturer: Dentsply Prosthetics
Address: 570 West College Ave.
York, PA 17405-0872
Information Telephone Number: 717-845-7511
Emergency Telephone Number: 800-424-9300 Chemtrec
Email: Prosthetics_MSDS@Dentsply.com

Product Use: Used to make denture molds.

Date of Last Revision: August 29, 2010

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview: May cause eye irritation. Inhalation of dust may cause mucous membrane and respiratory irritation. When mixed with water, this material hardens and becomes very hot – may cause burns.

EU Preparation Classification (1999/45/EC): Not classified as dangerous

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No./EINECS No.	Percent	EC Substance Classification (67/548/EEC)
Calcium Sulfate Hemihydrate	26499-65-0 / 231-900-3	90 -100%	Not Applicable

See Section 16 for further information on EU Classification.

SECTION 4 FIRST AID MEASURES

Eye Contact: Flush eyes with large quantities of water for 15 minutes, holding the eyelids apart. Get medical attention if irritation develops and persists.

Skin Contact: No first aid is generally required. Wash skin with soap and water after use.

Ingestion: May cause gastrointestinal discomfort and intestinal blockage. If swallowed, drink 1 or 2 glasses of water to dilute. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

Inhalation: Remove victim to fresh air. If irritation or other symptoms persist, get medical attention.

SECTION 5 FIRE FIGHTING PROCEDURES

Extinguishing Media: Use media appropriate to the surrounding fire.

Firefighting Procedures: Firefighters should wear full emergency equipment and NIOSH or locally approved positive pressure self-contained breathing apparatus in fires involving chemicals.

Unusual Fire/Explosion Hazards: None known.

Known or Anticipated Hazardous Products of Combustion: Thermal decomposition (above 2642°F (1450°C)) may generate calcium oxide and sulfur dioxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Wear appropriate protective clothing as described in Section 8. Collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. Do not use compressed air. Report releases as required by local, state and federal authorities.

Personal Precautions: Avoid contact with eyes and skin. Do not breathe dust.

Environmental Precautions: None known.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact with the eyes and skin. Do not breathe dust. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation and proper dust collection methods to keep exposure level below occupational exposure limits. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Storage: Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Limits:

Calcium sulfate hemihydrates (as PNOC)	15 mg/m ³ TWA OSHA PEL (Total Dust) 5 mg/m ³ TWA OSHA PEL (Respirable Fraction)
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Engineering Controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

Personal Protective Equipment:

Eye Protection: Safety glasses or goggles if needed to avoid eye contact

Skin Protection: Wear rubber or other impervious gloves to avoid prolonged or repeated contact.

Respiratory Protection: If the exposure limits are exceeded a NIOSH or locally approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 or other applicable regulations and good industrial hygiene practice.

Other Protective Clothing or Equipment: Impervious clothing as needed to avoid contamination of personal clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White powder with no odor.

Boiling Point: Not available

Freezing Point: Not available

Solubility in Water: Nil

Vapor Pressure (mmHg): Not available

Evaporation Rate: None

% Volatile by Volume: 0

Flammable Limits in Air:

LEL: Not applicable

UEL: Not applicable

Melting Point: Not available

Specific Gravity: 2.6 – 3.2

pH: Not applicable

Vapor Density: Not applicable

Viscosity: Not applicable

Flashpoint: Not flammable

Autoignition Temperature: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: None known

Incompatibility with Other Materials: Aluminum (+ heat), Diazamethane, acids.

Hazardous Decomposition Products: Thermal decomposition (above 2642°F/1450°C) may generate calcium oxide and sulfur dioxide.

Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: Contact may cause mechanical irritation and possible injury.

Skin: May cause irritation. When this product is mixed with water, the material hardens and becomes hot – may cause skin burns.

Ingestion: No adverse effects expected for normal, incidental ingestion. Large amounts may cause gastrointestinal irritation.

Inhalation: Inhalation of dust may cause irritation to the nose, throat and upper respiratory tract with coughing and shortness of breath.

Chronic Health Effects: Prolonged or repeated skin contact may cause dermatitis.

Carcinogenicity: None of the components are listed as a carcinogen by IARC, NTP, ACGIH, OSHA, or the EU Directive.

Medical Conditions Aggravated by Exposure: Individuals with pre-existing skin and respiratory disorders may be at increased risk from exposure.

Acute Toxicity Data:

Calcium Sulfate Hemihydrate Oral Rat LD50: >5000 mg/kg

SECTION 12 ECOLOGICAL INFORMATION

Calcium Sulfate Hemihydrate No ecotoxicity data available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state, and local regulations.

SECTION 14 TRANSPORT INFORMATION

DOT Shipping Name: Not Regulated

DOT Hazard Class: N/A

UN Number: N/A
DOT Labels Required (49CFR172.101): N/A

IATA Shipping Name: Not Regulated
IATA Hazard Class: N/A
UN Number: N/A
IATA Hazard Labels Required: N/A

IMDG Shipping Name: Not Regulated
IMDG Class: N/A
UN Number: N/A
IMDG Label: N/A

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:
Hazard Category For Section 311/312: Acute health

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

U.S. STATE REGULATIONS

California Proposition 65: This product contains the following substances known to the State of California to cause cancer: None

INTERNATIONAL REGULATIONS:

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).

Canadian WHMIS Classification: Class D Division 2B (Toxic material causing other toxic effects)

European Community Labeling: Not classified as hazardous

European Inventory of New and Existing Chemical Substances (EINECS): All of the components in this product are listed on the EINECS inventory.

Australian Inventory of Chemical Substances: All of the components in this product are listed on the AICS for Australia.

China Inventory of Existing Chemicals and Chemical Substances: All of the components in this product are listed on the IECSC for China.

Japanese Existing and New Chemical Substances: All of the components in this product are listed on the Japanese ENCS list.

Korean Existing Chemicals List: All of the components in this product are listed on the KECL for Korea.

Philippine Inventory of Chemicals and Chemical Substances: All of the components in this product are listed on the PICCS.

SECTION 16 OTHER INFORMATION

HMIS Hazard Rating:

Health – 0 Fire Hazard – 0 Reactivity – 0

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

None

Revision Summary:

Comprehensive Review – No Major Changes

Revision Date: 08/28/2010

Supersedes: 11/16/2007