

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

074383113

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

075982103 075982152

**DENTSPLY International**  
**DENTSPLY PROSTHETICS**

**Safety Data Sheet**

Date Issued: 10/13/97  
Document Number: 135  
Date Revised: 07/07/11  
Revision Number: 3

**1. PRODUCT IDENTIFICATION**

**Trade Name (as labeled):** Trubyte® OrthoStone Dental Stone  
**Product Identifier (Part/Item Number):** 99206, 99207, 99208  
**U.N. Number:** None  
**U.N. Dangerous Goods Classification:** Not Regulated for Transport  
**Recommended Use:** Fabrication of Dental Molds and Acrylic Dentures  
**Restrictions on Use:** For Professional Use Only  
**Manufacturer/Supplier Name:** Dentsply Prosthetics  
**Manufacturer/Supplier Address:** 570 West College Ave.  
York, PA 17405-0872  
**Manufacturer/Supplier Telephone Number:** 717-845-7511 (Product Information)  
**Emergency Contact Telephone Number:** 800-424-9300 Chemtrec  
**Email address:** Prosthetics\_MSDS@Dentsply.com

**2. HAZARD(S) IDENTIFICATION**

**EU Classification (1999/45/EC):** Not Classified as Hazardous

**Labeling in accordance with 1999/45/EC:** No labeling required

**US Hazard Classification:** Hazardous





**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

<b>Hazardous Components</b>	<b>C.A.S. # EC#</b>	<b>EINECS #</b>	<b>Substance Classification</b>	<b>WT %</b>
Calcium Sulfate Hemihydrate	26499-65-0	231-900-3	Not classified as hazardous	100%

#### 4. FIRST-AID MEASURES

Routes of Exposure	First Aid Instructions
Eye	Flush eyes with water, holding the eyelids apart. Get medical attention if irritation occurs and persists.
Skin	No first aid is generally required. Wash skin with soap and water after use.
Inhalation	Remove victim to fresh air. If irritation or other symptoms persist, get medical attention.
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.
Most important symptoms of exposure	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
<b>Note to Physicians (Treatment, Testing, and Monitoring):</b> Treat symptomatically.	

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Use media appropriate for surrounding fire.		
<b>Fire Fighting Procedures:</b>	Use water to cool fire exposed containers.		
<b>Specific Hazards Arising from the Chemical:</b>	Thermal decomposition (above 1450°C) may generate calcium oxide and sulfur dioxide.		
<b>Precautions for Fire Fighters:</b>	Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.		
<b>Recommended Protective Equipment for Fire Fighters:</b>			
<b>EYES/FACE</b>	<b>HANDS</b>	<b>RESPIRATORY</b>	<b>SKIN</b>
			

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, PPE and Emergency Procedures:** Wear appropriate protective clothing as described in Section 8. Avoid contact with eyes and skin. Do not breathe dust.

**Environmental Precautions:** Report releases as required by local and national authorities

**Methods and Materials for Containment and Clean-up:** Collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. Do not use compressed air.



<b>Environmental Exposure Controls:</b> Use dust collection if needed to avoid release to the environment.
<b>General Hygiene Considerations and Work Practices:</b> Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.
<b>Protective Measures During Repair and Maintenance of Contaminated Equipment:</b> Wear appropriate protective clothing and equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White powder	<b>Explosive limits:</b>	Not applicable
<b>Odor:</b>	No odor	<b>Vapor pressure:</b>	Not applicable
<b>Odor threshold:</b>	None	<b>Vapor density:</b>	Not applicable
<b>pH:</b>	Not applicable	<b>Relative density:</b>	2.6-3.2
<b>Melting/freezing point:</b>	Decomposes	<b>Solubility:</b>	Nil
<b>Initial boiling point and range:</b>	Not applicable	<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Flash point:</b>	Not flammable	<b>Auto-ignition temperature:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable	<b>Decomposition temperature:</b>	Not available
<b>Flammability:</b>	Not flammable	<b>Viscosity:</b>	Not applicable
<b>Explosive Properties:</b>	None	<b>Oxidizing Properties:</b>	None

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b> None known
<b>Chemical Stability:</b> Hygroscopic – absorbs water or moisture from the air.
<b>Possibility of Hazardous Reactions:</b> None known
<b>Conditions to Avoid:</b> Contact with water causes product to harden
<b>Incompatible materials:</b> Aluminum (+ heat), diazomethane, acids.

**Hazardous Decomposition Products:** Thermal decomposition will generate calcium oxide and toxic sulfur dioxide.

## 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 of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU Substances Directive.

**Mutagenicity:** No data is available. This product is not expected to cause mutagenic activity.

**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

**Reproductive Toxicity Data:** No data available. This product is not expected to cause adverse reproductive effects.

### **Specific Target Organ Toxicity (STOT):**

Single Exposure: No data available.

Repeated Exposure: No data available.

## 12. ECOLOGICAL INFORMATION

**Toxicity:** Calcium Sulfate Hemihydrate: No data available

**Persistence and Degradability:** Biodegradation is not applicable to inorganic substances.

**Bio-accumulative Potential:** The potential for bioaccumulate is expected to be low.

**Mobility in Soil:** No data available.

**Other Adverse Effects:** None known

**Results of PBT/vPvB Assessment:** Not required

## 13. DISPOSAL CONSIDERATIONS

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

<b>Properties (Physical/Chemical) Affecting Disposal:</b> None currently known.
<b>Waste Treatment Recommendations:</b> None known.

**14. TRANSPORT INFORMATION**

<b>UN Identification Number:</b> N/A
<b>UN Proper Shipping Name:</b> Not regulated for transport
<b>Transport hazard class(es):</b> N/A
<b>Packing Group:</b> N/A
<b>Special precautions for user:</b> None

**15. REGULATORY INFORMATION**

**U.S. Federal Regulations**

**US OSHA Hazard Classification:** Acute Health.

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** 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.

**Toxic Substances Control Act (TSCA):** All of the components are listed on the TSCA inventory (CAS number 7778-18-9)

**Clean Water Act (CWA):** This material is not regulated under the Clean Water Act

**Clean Air Act (CAA):** This material is not regulated under the Clean Air Act

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

**SARA Section 311/312 (40 CFR 370) Hazard Categories:**

<b>Immediate Hazard:</b>	<b>Yes</b>	<b>Pressure Hazard:</b>	<b>No</b>
<b>Delayed Hazard:</b>	<b>No</b>	<b>Reactivity Hazard:</b>	<b>No</b>
<b>Fire Hazard:</b>	<b>No</b>		

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):**

Components	C.A.S. #	WT %
None		

**State Regulations**

**California:** This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
None		

**International Regulations**

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

**Canadian Workplace Hazardous Materials Information System (WHMIS):** Class D Division 2B (Toxic material causing other toxic effects)

**European Inventory of Existing Chemicals (EINECS):** All of the components in this product are listed on the EINECS inventory.

**EU REACH:** All components requiring registration have been pre-registered.

**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.

**16. OTHER INFORMATION**

HMIS Hazard Rating:

Health -1      Flammability - 0      Physical Hazard - 0

Full text of Classification abbreviations used in Section 2 and 3: None

Supersedes: November 29, 2007

Revision Summary: Change in formulation. Change in format. Comprehensive review. Changes to 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.