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LEACH & DILLON PRODUCTS  
161 COMSTOCK PKWY.  
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MATERIAL SAFETY DATA SHEET

DATE: SEPTEMBER 2002

1. PRODUCT IDENTIFICATION

Product Name: Sensation II Shoulder

Other Designations: Dental Porcelain

2. HAZARDOUS COMPONENTS

	CAS#	OSHA	PEL	ACGIH	TLV	%
		TWA	STEL/CEIL	TWA	STEL/CEIL	
Silica-Amorphous	60676-86-0	0.1 mg/m3*	N/A	0.1 mg/m3*	N/A	60-70
Aluminum Oxide (Non-fibrous)	1344-28-1	5 mg/m3	N/A	10**mg/m3	N/A	12-18
Calcium Oxide	1305-78-8	5mg/m3	N/A	2mg/m3	N/A	1-5
Sodium Oxide	1313-59-3	N/A	N/A	N/A	N/A	4-8
Potassium Monoxide	12136-45-7	N/A	N/A	N/A	N/A	8-12
Titanium Oxide	13463-67-7	5*mg/m3	N/A	10**mg/m3	N/A	0-10

\* Respirable dust (product contains 80% - 86% particle size of < 6.3 microns)

\*\*Total dust containing no asbestos and <1% crystalline silica

3. PHYSICAL DATA

Boiling Point: > 1000°

Vapor Pressure: N/A

Specific Gravity: >1

Appearance and Color: White or pink colored powder

Melting point: > 1000°

Vapor Density: N/A

Solubility in Water: Insoluble

Odor: Odorless

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A

Flammable Limits: N/A

Extinguishing Media: Do not use water. Use carbon dioxide, foam, or as applicable for surrounding fire.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazard: May react with water.

5. REACTIVITY DATA

Stable: Yes

Hazardous Polymerization: Will not occur.

Incompatibility: May react with water.

Conditions to Avoid: N/A

Hazardous Decomposition: Silica dust, fumes

MSDS #LDO07

## 6. HEALTH HAZARD DATA

Inhalation: Acute: May cause irritation of respiratory tract.  
Chronic: May cause silicosis.  
First Aid: Remove from exposure; seek medical attention if symptoms persist.

Ingestion: Acute: May cause irritation.  
Chronic: Not known.  
First Aid: Seek medical attention.

Skin: Acute: May cause irritation.  
Chronic: Not known.  
First Aid: Wash with soap & water.

Eyes: Acute: May cause irritation.  
Chronic: Not known.  
First Aid: Flush with water for 15 mins.

Signs & Symptoms of Exposure: Redness, dermatitis, coughing.

Medical conditions generally aggravated by exposure: those with lung problems.

Carcinogenicity: Titanium oxide: NIOSH (Limit of Quantation 0.2)

Silica- Amorphous; IARC-3 (not classifiable as to carcinogenicity to humans),  
NIOSH-X (carcinogen defined with no further categorization).

## 7. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case of spill or leak: Avoid inhalation and / or generation of dust. Carefully pick up and place in a covered container.

Disposal: According to all Federal, state and local limits.

Precautions to be taken in Handling & Storing: store in a cool, dry place. All components except titanium oxide are in a glassy matter.

## 8. CONTROL MEASURES

Ventilation and Respiratory Protection: NIOSH approved respirator above exposure limits, local exhaust.

Other Protective Equipment; Gloves, dust resistant safety glasses

Work/ Hygienic Practices: Avoid inhalation or ingestion. Proactive good housekeeping. Avoid eating and smoking in the work area. Wash thoroughly before eating and smoking.

## 9. SUPPLIER NOTIFICATION

California safe Drinking Water & Toxic Enforcement Act of 1986 (Proposition 65) \*Warning- This product contains a chemical known to the State of California to cause cancer\*

Information and data are taken from sources believed to be reliable and correct, but cannot be warranted by manufacturer. User is responsible to determine suitability of material for specific application.

