

MATERIAL SAFETY DATA SHEET

FORM NO.: 237

SECTION I - GENERAL INFORMATION

- 1.1 Product Trade Name: BanDust Casting Investment
- 1.2 Part (Item) Number: N410000, N410010
- 1.3 Chemical Name.....: N.A.
- 1.4 Synonyms.....: N.A.
- 1.5 Division Name.....: DENTSPLY PROSTHETICS
Address.....: 570 W. College Ave.
City, State, Zip...: York, PA 17405-0872
- 1.6 Phone No. for Info.: 717-845-7511
Dentsply

"FOR CHEMICAL EMERGENCY"
SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT
CALL CHEMTREC - DAY OR NIGHT

- 1.7 Emergency Phone No.: 800-424-9300 Chemtrec
- 1.8 Date.....: 10/6/03
- 1.9 Dentsply Contact...: Scott E. Shaffer
- 1.10 Signature.....: *Scott E. Shaffer*
- 1.11 Formula.....: N.A.
- 1.12 National Stock No.: N.A.
- 1.13 Specification No...: N.A.
- 1.14 Chemical Family....:
- 1.15 Type/Grade/Class...: N.A.
- 1.16 NRC/EPA Number.....: N.A.

SECTION II - HAZARDOUS INGREDIENTS

2.1 CAS Number	Chemical Name (Ingredients)	%	TLV	OSHA PEL
14808-60-7	Silica, Quartz	>60	0.05mg/m ³	10mg/m ³
14464-46-1	Cristobalite	<30	0.5mg/m ³	5mg/m ³
1309-48-4	Magnesium Oxide	<15	10mg/m ³	15mg/m ³
7722-76-1	Ammonium Phosphate	<15	N/E	N/E

SECTION III - PHYSICAL PROPERTIES

- 3.1 Boiling Point.....: N.A.
- 3.2 Vapor Pressure.....: N.A.
- 3.3 Vapor Density.....: N.A.
- 3.4 Critical Temp.....: N.A.
- 3.5 Decomposition Temp...: N.A.
- 3.6 Melting/Freezing Pt.: N.A.
- 3.7 Solubility in Water...: Slightly
- 3.8 Critical Pressure...: N.A.
- 3.9 Perm. Exp. Limit....: N.A.
- 3.10 Appearance and Odor.: Odorless, white granular, very fine solid.
- 3.11 Specific Gravity...: 3
- 3.12 pH.....: N.A.
- 3.13 Evaporation Rate...: N.A.
- 3.14 Viscosity.....: N.A.
- 3.15 % Volatile by Vol.: N.A.
- 3.16 Magnetism.....: N.A.
- 3.17 Autoignition Temp.: N.A.
- 3.18 Corrosion Rate....: N.A.
- 3.19 Molecular Weight...: N.A.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

- 4.1 Flash Point(Method Used): N.A.
- 4.2 Flammable (Explosive) Limits: N.A.
LEL: UEL:
- 4.3 Extinguishing Media: Non-combustible, use extinguishing media appropriate for the surrounding fire conditions.
- 4.4 Special Fire Fighting Procedures and Equipment: None.
- 4.5 Unusual Fire and Explosion Hazards: None.

SECTION V - HEALTH HAZARD DATA

- 5.1 Effects of Acute and Chronic Over Exposure: Harmful if inhaled. Chronic overexposure may cause lung damage, silicosis. Inhalation cancer hazard. Contains quartz and cristobalite which can cause cancer. May cause eye irritation. Inhalation: Coughing and irritation of the throat. Eye Contact: Irritation, redness and pain.
BanDust Casting Investment, cont'd

Skin Contact: Redness, itching and pain. Persons with impaired respiratory function may be more susceptible to the effects of inhalation of this product.

5.2 Emergency and First Aid Procedures: If inhaled, remove to fresh air. Begin artificial respiration if victim is not breathing. Contact physician. For eye contact, flush with a large amount of water for a minimum of 15 minutes. Contact a physician.

5.3 Carcinogenicity: NTP - Yes IARC - Category 1 OSHA Regulated - Yes

SECTION VI - REACTIVITY DATA

6.1 Unstable: Stable: X

6.2 Conditions to Avoid (Stability): None

6.3 Incompatibility (Materials to Avoid): None

6.4 Hazardous Decomposition Products: None

6.5 Hazardous Polymerization: May Occur: Will Not Occur: X

6.6 Conditions to Avoid (Polymerization): None.

SECTION VII - SPECIAL PRECAUTIONS AND SPILL OR LEAK PROCEDURES

7.1 Handling and Storage Precautions: Protect against physical damage and spills. Avoid spilling material during use. Do not allow dust to collect on equipment, benches and floor.

7.2 Other Precautions: Keep work area clean so that dust does not exceed PEL. Wash clothing that has become dusty. Do not breathe dust from clothing.

7.3 Steps to be Taken in Case Material is Released or Spilled: Clean up spills using a dustless method (water or vacuum) and minimize the generation of airborne respirable dust. Ventilate the spill area. Wear NIOSH N100 particulate respirator during clean up. Collect and store waste in a disposable sealed container.

7.4 Waste Disposal Procedures: Dispose of waste material in accordance with federal, state and local EPA regulations in an approved landfill site.

7.5 Neutralizing Agent: Not applicable.

SECTION VIII - OCCUPATIONAL PROTECTION MEASURES

8.1 Respiratory Protection: NIOSH N100 particulate respirator if PEL is exceeded in the work area.

8.2 Ventilation: Exhaust hood highly recommended to maintain dust below PEL value.

8.3 Protective Gloves: Plastic gloves if skin irritation occurs.

8.4 Eye Protection: Safety glasses.

8.5 Other Personal Protective Equipment: Lab coat that is changed daily if it becomes dusty.

SECTION IX - TRANSPORTATION

9.1 Applicable Regulations...IMOC: N.A. IATA: N.A. 49 CFR: N.A.
Military Air (AFR 71-4): N.A. Tariff 6D: N.A.

9.2 Shipping Name.....: N.A.

9.3 I.D. Number.....: N.A.

9.9 Unit Container.....: N.A.

9.4 Report Quantity.....: N.A.

9.10 DOT SPSC Container: N.A.

9.5 Hazard Class.....: N.A.

9.11 DOT Exempt/DOD/CCN: N.A.

9.6 Labels.....: N.A.

9.12 Limited Quantity...: N.A.

9.7 Aerosol Propellant(s): N.A.

9.8 Net Explosive Weight: N.A.