



**MATERIAL SAFETY DATA SHEET**

Product Identity:  
**TRIUMPH CASTING INVESTMENT**

**SECTION I. Identification** REVISION: MAY 2006

Manufacturer	Emergency Telephone Number:
Dental Ventures of America Inc.	Infotrack (800) 535 - 5053
217 Lewis Court	Product Information Number:
Corona, CA. 92882	(951) 270 - 0606

**SECTION II. Composition/Information on Ingredients**

Trade Name:	Triumph Phosphate Investment
Formula:	Mixtures
CAS Number:	Not assigned

**SECTION III. Hazardous Ingredients/Identity Information**

Common Names	CAS Number	OSHA/PEL	ACGIH-TLV.1992
Silica Sand	NA*	0.1	
Phosphates	NA	5	
Silica Crystalline	NA	0.05	
Magnesia	NA	10	
Metal Oxides	NA	10	

\*Not Available

**SECTION IV. First Aid Measures**

None Required.

**SECTION V. Fire-Fighting Measures**

No fire or explosion hazard. This product is NOT flammable. Reactions with most diluting agents are not to be expected. Instructions contained in Section VIII - Personal Protection, should be followed when combining with water in large volumes.

**SECTION VI. Accidental Release Measures**

Steps to Take in Case Material is Released or Spilled:	Avoid generating dust. Material can be vacuumed. If water is used to avoid dust, insure that adequate water is used.
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**SECTION VII. Handling and Storage**

Handling for prolonged periods or in large quantities should be done in well-ventilated areas and where dust evacuation equipment is available. Inhaling of dust should be avoided.

No special storage recommendations for safety are necessary. Store in dry, cool area for extended shelf life and consistent performance.

**SECTION VIII.****Exposure Controls / Personal Protection**

Threshold Limit Value:	None established for this material.
Effects of Overexposure:	Lung damage may result if excessive dust is inhaled.
Skin and Eye Irritation:	May cause dryness and irritation.
Personal Protection:	
Inhalation:	A dust filter mask should be worn while mixing powder. Handling of large quantities should be done in well-ventilated areas and where dust evacuation equipment is available.

**SECTION IX.****Physical and Chemical Properties**

Appearance:	Powder, white in color without odor.	Flammable Point:	Not Determined.
pH Value:	4.5 in contact with water.	Vapor Point:	Not Determined.
Melting Point:	>1400 C (2550 F)	Vapor Pressure:	Not Determined
Compressivity:	41100-1200 kg/m	Solubility:	Only slightly soluble in water.*
Specific Gravity:	1.05 g/ml		

\*Reaction with water forms non-soluble magnesium phosphate. At preheated temperature of about 250-350 C (480-660 F) a weak ammoniac smell is detected. Exothermic reaction is experienced with large amounts of water. First the material becomes fluid and then hard. Increase in temperature during this process may cause formation of ammoniac odor as described above.

**SECTION X.****Stability and Reactivity**

Stable:	Yes
Incompatibility:	Water except in normal use. Hydrofluoric acid.
Hazardous Decompositon:	None

**SECTION XI.****Toxicological Information**

No carcinogenicity, mutagenicity or teratogenicity effects are known or have been found. Inhalation of crystalline silica over long periods can lead to lung disease (silicosis).

**SECTION XII.****Ecological Information**

No information available at this time.

**SECTION XIII.****Disposal Considerations**

No special requirements. This material can be disposed of after reaction with water. It can then be treated as 'domestic or building scrap'. Follow all local, state, provincial and federal regulations.

**SECTION XIV.****Transport Information**

Transport this material according to local, state, provincial and federal regulations.

**SECTION XV.****Regulatory Information**

No information available at this time.

The data herein relates to the product named and is based upon information that Dental Ventures of America, Inc. believes to be reliable and accurate. No warranty expressed or implied is intended. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. This information is offered solely for your consideration and interpretation.