



MATERIAL SAFETY DATA SHEET

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

Product Name: Trubase® Baseplates
Product Number: 872970101, 872970102, 870970201, 870970202
MSDS Code Number: 98

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 in fabrication of artificial dentures

Date of Last Revision: September 7, 2007

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview: This product is a non-hazardous pinkish brown solid in sheet form. Hazardous ingredients listed below are encapsulated into the solid matrix. No exposure to these materials occurs unless dust is generated. Dust generated through grinding may cause eye or respiratory tract irritation. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis) and increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure.

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

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No./EINECS No.	Percent	EC Substance Classification (67/548/EEC)
Non-hazardous Ingredients	Mixture	30-40%	Not Applicable
Mica	12001-26-2 / Not Applicable	30-40%	Not Applicable
Titanium dioxide	13463-67-7 / 236-675-5	5-10%	Not Applicable
Crystalline Silica (Quartz)	14808-60-7 / 238-878-4	<1%	Xn R48/20

See Section 16 for further information on EU Classification.

SECTION 4 FIRST AID MEASURES

If exposed to dust from polishing or grinding:

Eye Contact: Flush eyes with water.

Skin Contact: Wash skin with soap and water.

Ingestion: No adverse effects expected.

Inhalation: Remove victim to fresh air.

SECTION 5 FIRE FIGHTING PROCEDURES

Extinguishing Media: These products are not classified as flammable or combustible but may burn under fire conditions. Use media appropriate for surrounding fire.

Firefighting Procedures: Do not enter fire area without proper protection. Fight fire from safe distance or protected location. Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus for all fire involving chemicals.

Unusual Fire/Explosion Hazards: Fine dust suspended in air may present a fire or explosion hazard.

Known or Anticipated Hazardous Products of Combustion: Oxides of carbon.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Pick up and return to container for use or disposal. If dust from grinding or polishing product is spilled, wear appropriate protective clothing as described in Section 8. Eliminate sources of ignition. Contain spills, sweep or gather spilled material in a manner that minimized the generation of air born dusts, and transfer to a suitable container for disposal.

Personal Precautions: Avoid contact with eyes. Avoid breathing dust.

Environmental Precautions: None needed.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid generating dust. Avoid breathing dust. Wash hands thoroughly after polishing or grinding teeth. Use adequate ventilation for operations that may generate dust or fumes. Use good housekeeping to prevent the accumulation of dust on surfaces.

Storage: No special storage required.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Limits:

Non-hazardous Polymer	None Established
Mica	3 mg/m ³ (Respirable fraction) TWA TLV 20 mppcf TWA PEL 0.8 mg/m ³ (respirable) 10 mg/m ³ (total inhalable) TWAUK WEL
Crystalline Silica (Quartz)	$\frac{10 \text{ mg/m}^3}{\% \text{ Silica} + 2}$ TWA PEL (respirable fraction) 0.025 mg/m ³ TWA TLV (respirable fraction) 0.3 mg/m ³ TWA UK WEL 0.15 mg/m ³ TWA MAK
Titanium Dioxide	15 mg/m ³ TWA PEL (total dust) 10 mg/m ³ TWA TLV 1.5 mg/m ³ (respirable dust) DFG MAK 10 mg/m ³ (inhalable) 4 mg/m ³ (respirable dust) TWA UK WEL

Engineering Controls: Use ventilation that is adequate to maintain exposure levels below the occupational exposure limits.

Personal Protective Equipment:

Eye Protection: Follow facility requirements for operation.

Skin Protection: None required during the normal use of this product.

Respiratory Protection: None needed during normal conditions. If processing generates dust and ventilation is inadequate, use an approved particulate respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations or local authority regulations and good Industrial Hygiene practice.

Other Protective Clothing or Equipment: None needed during normal conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Pinkish brown solid in sheet form.

Boiling Point: Not available

Melting Point: >120°C (248°F)

Freezing Point: Not available

Specific Gravity: 1.93

Solubility in Water: Very slightly soluble

pH: Not available

Vapor Pressure (mmHg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not applicable

% Volatile by Volume: Not applicable

Flashpoint: Not applicable

Flammable Limits in Air: LEL: N/A

Autoignition Temperature: Not applicable

UEL: N/A

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid (stability): None known.

Incompatibility with Other Materials: Strong oxidizers, strong bases, reducers.

Hazardous Decomposition Products: None known.

Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

This product is a non-hazardous pinkish brown solid in sheet form. Hazardous ingredients are encapsulated into the solid matrix. No exposure to these materials occurs unless dust is generated.

Potential Health Effects:

Eyes: Dust generated during grinding may cause eye irritation.

Skin: Dust may cause mechanical irritation.

Inhalation: No adverse effects expected. Dust may cause irritation if plates are ground or polished.

Ingestion: No adverse effects expected. Ingestion of large amounts may cause gastrointestinal irritation.

Chronic Health Effects: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function.

Carcinogenicity: Titanium dioxide is listed by IARC as a group 2B carcinogen (possible human carcinogen). Crystalline silica quartz is listed as "Carcinogenic to Humans" (Group 1) by IARC and "Known to be a Human Carcinogen" by NTP. None of the other components of this product are listed as carcinogens by OSHA, IARC or NTP or the EU directive.

Mutagenicity: No data available.

Medical Conditions Aggravated by Exposure: None known.

Toxicological Data:

Non-hazardous Ingredients: No data available.

Mica: No data available

Crystalline Silica (Quartz): Oral Rat LD50 - >22,500 mg/kg

Titanium Dioxide: No data available.

SECTION 12 ECOLOGICAL INFORMATION

No data is currently available.

SECTION 13 DISPOSAL CONSIDERATIONS

The product should be disposed of 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: Not regulated under CERCLA. 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: Chronic 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: This product is a medical device and not subject to chemical notification requirements.

U.S. STATE REGULATIONS

California Proposition 65: This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity: Crystalline Silica (Quartz): <1%

INTERNATIONAL REGULATIONS:

Canadian Environmental Protection Act: This product is a medical device and not subject to chemical notification requirements.

Canadian WHMIS Classification: Medical devices are not subject to WHMIS.

European Community Labeling: None required

European Inventory of New and Existing Chemicals Substances (EINECS): This product is a medical device and not subject to chemical notification requirements.

Australian Inventory of Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

China Inventory of Existing Chemicals and Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

Japanese Existing and New Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

Korean Existing Chemicals List: This product is a medical device and not subject to chemical notification requirements.

Philippine Inventory of Chemicals and Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

SECTION 16 OTHER INFORMATION

HMIS Hazard Rating:

Health – 0* Fire Hazard – 0 Reactivity – 0
* chronic health effect

Revision Date: 09/07/2007

Supersedes: 10/13/1997

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

Xn Harmful

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation