

SAFETY DATA SHEETS

This SDS packet was issued with item:

072775005

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

072726610 072769008 072775013 072775021 072775039 072775047



MATERIAL SAFETY DATA SHEET

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

Product Name: TRIXA® Catalyst/TRIXA® Putty
Product Number: 904948, 904947, 904946, 905449, 905438
MSDS Code Number: 197

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 partial dentures

Date of Last Revision: October 19, 2009

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview: May cause slight eye irritation.

EU Preparation Classification (1999/45/EC): Not a dangerous preparation

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No./EINECS No.	Percent	EC Substance Classification (67/548/EEC)
Catalyst:			
Alkylstannosiloxane	93925-42-9 / 300-344-4	5-7	Xi R36
Non-hazardous Ingredients	Not applicable	93-95	Not applicable
Paste:			
Non-hazardous Ingredients	Not applicable	100	Not applicable

See Section 16 for further information on EU Classification.

SECTION 4 FIRST AID MEASURES

Eye Contact: Flush eyes with water, holding the eyelids apart. Get medical attention if irritation occurs.

Skin Contact: Wash skin with soap and water.

Ingestion: If small quantities are swallowed, rinse out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or drowsy person. If large amounts are swallowed or if irritation or discomfort occurs, get immediate medical attention.

Inhalation: Remove victim to fresh air. Get medical attention if irritation occurs.

SECTION 5 FIRE FIGHTING PROCEDURES

Extinguishing Media: Use media appropriate for the surrounding fire.

Firefighting Procedures: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

Unusual Fire/Explosion Hazards: None known.

Known or Anticipated Hazardous Products of Combustion: Carbon monoxide, carbon dioxide and smoke.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Wipe up or scoop up and place into a container for disposal. Rinse spill area with water.

Personal Precautions: Avoid contact with skin, eyes or clothing.

Environmental Precautions: None known.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact and inhalation of the vapors. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation.

Storage: Store in a dry, well ventilated area. Keep container closed when not in use.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Limits:

Alkylstannosiloxane (as Tin)	0.1 mg/m ³ TWA OSHA PEL 0.1 mg/m ³ TWA, 0.2 mg/m ³ STEL skin ACGIH TLV 0.1 mg/m ³ TWA (inhalable fraction) skin DFG MAK 0.1 mg/m ³ TWA, 0.2 mg/m ³ STEL skin UK WEL
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Engineering Controls: Use with adequate local exhaust ventilation to minimize exposures.

Personal Protective Equipment:

Eye Protection: Safety glasses or goggles if eye contact is possible.

Skin Protection: None needed during normal use. Wear rubber gloves if needed to avoid skin contact.

Respiratory Protection: None should be needed for normal use.

Other Protective Clothing or Equipment: None needed for normal use. Long sleeves may be advisable when working with large quantities.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Red gel with ethylic odor and green paste with mint odor.

Boiling Point: Catalyst: 230°F (110°C)
Putty: Not available

Melting Point: Not available

Freezing Point: Not available

pH: Not applicable

Solubility in Water: Catalyst: Insoluble
Putty: Insoluble

Specific Gravity: Catalyst: 1.02 g/cc
Putty: 1.81 g/cc

Vapor Pressure (mmHg): Catalyst: 42mbar@20°C
Putty: Not available

Flashpoint: Catalyst: 144°F (62°C)
Putty: Not available

Evaporation Rate: Not applicable

Viscosity: Not applicable

% Volatile by Volume: Not applicable

Vapor Density: Not available

Flammable Limits in Air: Not available

Autoignition Temperature: Not determined

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Extreme heat

Incompatibility with Other Materials: Avoid oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and smoke.

Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: Direct contact may cause eye irritation.

Skin: Not expected to be hazardous. Prolonged use may cause irritation.

Ingestion: Large amounts may cause gastric upset.

Inhalation: Vapors may be slightly irritation with coughing.

Chronic Health Effects: None known.

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC or NTP.

Medical Conditions Aggravated by Exposure: Individuals with pre-existing skin disorders may be at increased risk from exposure.

Acute Toxicity Data:

Alkylstannosiloxane No data available

SECTION 12 ECOLOGICAL INFORMATION

Alkylstannosiloxane

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose 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: 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.

SARA TITLE III:

Hazard Category For Section 311/312: Not applicable

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 known

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: None

INTERNATIONAL REGULATIONS:

Canadian WHMIS Classification: This product is a medical device and not subject to labeling under WHMIS.

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

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 – 1 Reactivity – 0

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

Xi Irritant
R36 Irritating to eyes.

Revision Summary: Switched Sections 2 and 3. Added e-mail address to Section 1. Updated international inventory information in Section 15. Comprehensive Review.

Revision Date: 10/19/2009

Supercedes: 10/02/2006

DENTSPLY International

Safety Data Sheet

Safety Data Sheet (conforms to with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 2015/830), US 29CFR1910.1200, Canada Hazardous Products Regulation

Date Issued: 23 February 2001
Document Number: 205
Date Revised: 25 August 2017
Revision Number: 7

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name (as labeled): TRIXA® Putty
Part/Item Number: 905438, 905449, 904948

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Recommended Use: Used in fabrication of partial dentures
Restrictions on Use: For Professional Use Only

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name: Dentsply Sirona Prosthetics
Manufacturer/Supplier Address: 570 West College Ave.
York, PA 17401
Manufacturer/Supplier Telephone Number: 717-845-7511 (Product Information)
Email address: Prosthetics_MSDS@Dentsplysirona.com

1.4 Emergency Telephone Number:

Emergency Contact Telephone Number: 800-424-9300 Chemtrec

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

GHS Classification:		
Health	Environmental	Physical
Not Hazardous	Not Hazardous	Not Hazardous

2.2 Label Elements: None Required

2.3 Other Hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture:

Hazardous Components	C.A.S. #	EINECS # / REACH Registration #	Classification	WT %
Silica Filler	65997-17-3	266-046-0 /	Carc. 1B (H350i)*	45-70
Diatomaceous earth, flux calcined (kieselguhr)	68855-54-9	272-489-0 /	Not Applicable	9-19
White Mineral Oil (Petroleum)	8042-47-5	232-455-8 /	Asp. Tox. 1 (H304)	1-10
Aluminum Hydroxide	21645-51-2	244-492-7 /	Not Applicable	1-10
Crystalline Silica (as Cristobalite)**	14464-46-1	238-435-4 /	Carc 1 (H350) STOT RE 1 (H372)	1-3

*Carcinogen classification is not applicable to non-fibrous forms.

**Crystalline-Silica in this product is inextricably bound in a manner that no exposure occurs during normal use and handling. Therefore this product is not classified as a carcinogen.

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS Classifications.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye	Flush eyes with large quantities of water, holding the eyelids apart. Get medical attention if irritation develops and persists.
Skin	No first aid is generally required. Wash skin with soap and water after use.
Inhalation	Remove victim to fresh air. If symptoms persist or breathing is difficult, get medical attention.
Ingestion	Get medical attention if a large amount is swallowed.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

May cause mild eye and skin irritation.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

Immediate medical attention is not required.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Use media appropriate for surrounding fire.

5.2 Special Hazards Arising from the Substance or Mixture:

Thermal decomposition may generate oxides of carbon and smoke.

5.3 Advice for Fire-Fighters:

Fire Fighting Procedures/Precautions for Fire Fighters:	Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Do not enter fire area without proper protection. Use water to cool fire exposed containers and structures.
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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:
Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing as described in Section 8.
6.2 Environmental Precautions:
Prevent release into the environment. Report releases as required by local and national authorities.
6.3 Methods and Material for Containment and Cleaning up:
Wipe up or scoop up and place into a container for disposal. Rinse spill area with water. Flush spill area with water to remove residue.
6.4 Reference to Other Sections:
Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:
Avoid contact with the eyes. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Practice good housekeeping.
7.2 Conditions for Safe Storage, Including Any Incompatibilities:
Store in a cool, dry, well-ventilated area away from incompatible materials. Protect from physical damage.
7.3 Specific End Use (s):
For professional use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:
Occupational Exposure Limits:

Silica Filler	1 fibre/cc TWA ACGIH TLV
Diatomaceous Earth, Flux Calcined (Kieselguhr)	0.3 mg/m ³ TWA DFG MAK (Respirable)
White Mineral Oil (Petroleum)	5 mg/m ³ TWA OSHA PEL (as oil mist, mineral)
	5 mg/m ³ (Inhalable) TWA ACGIH TLV (as mineral oil)
	5 mg/m ³ TWA (Respirable), 20 mg/m ³ STEL DFG MAK
Aluminum Hydroxide	4 mg/m ³ (Inhalable), 1.5 mg/m ³ (Respirable) TWA DFG MAK
Crystalline Silica as Cristobalite	0.025 mg/m ³ TWA ACGIH TLV (Respirable)
	0.05 mg/m ³ TWA OSHA PEL (Respirable)
	0.05 mg/m ³ TWA Belgium (Respirable)
Biological Exposure Limits: None Established	

8.2 Exposure Controls:
Appropriate Engineering Controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.
Individual Protection Measures (PPE): Specific Eye/face Protection: Chemical safety glasses or goggles recommended if eye contact is possible. Specific Skin Protection: None needed during normal use. Wear impervious gloves such as PVC if needed to avoid skin contact. Specific Respiratory Protection: None should be needed for normal use. If the exposure limits are exceeded an approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice. Specific Thermal Hazards: None required

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance:	Green paste	Explosive limits:	LEL: Not determined UEL: Not determined
Odor:	Mint odor	Vapor pressure:	Not applicable
Odor threshold:	Not determined	Vapor density (Air = 1):	Not applicable
pH:	Not applicable	Relative density:	1.81 g/cc
Melting/freezing point:	Not determined	Solubility:	Insoluble in water
Initial boiling point and range:	Not determined	Partition coefficient: n-octanol/water:	Not determined
Flash point:	Not determined	Auto-ignition temperature:	Not applicable
Evaporation rate (n-BuAc = 1):	Not applicable	Decomposition temperature:	Not determined

Flammability:	Not determined	Viscosity:	Not applicable
Explosive Properties:	Not explosive	Oxidizing Properties:	None

9.2 Other Information: None available

10. STABILITY AND REACTIVITY

10.1 Reactivity: None known.
10.2 Chemical Stability: Stable under normal conditions of use and storage.
10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
10.4 Conditions to Avoid: None known.
10.5 Incompatible materials: None known.
10.6 Hazardous Decomposition Products: Decomposition may release oxides of carbon and smoke.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

<u>Potential Health Effects:</u> <u>Eyes:</u> Direct contact may cause eye irritation. <u>Skin:</u> Not expected to be hazardous. Prolonged exposure may cause irritation. <u>Ingestion:</u> Swallowing large amounts may cause irritation with nausea and diarrhea. <u>Inhalation:</u> This product is in a form that no inhalation exposure occurs during normal use and handling.
<u>Chronic Health Effects:</u> None known.
<u>Irritation:</u> No data available.
<u>Corrosivity:</u> This product is not classified as corrosive.
<u>Sensitization:</u> No data available.
<u>Carcinogenicity:</u> Some fiber glass filaments are classified by IARC as Possible carcinogenic to humans (Group 2B) and are classified as Carcinogen Category 1B by the EU CLP. Crystalline silica Cristobalite is listed as "Carcinogenic to Humans" (Group 1) by IARC and "Known to be a Human Carcinogen" by NTP. However, the Crystalline silica in this product is inextricably bound in a manner that no exposure occurs during normal use and handling. Therefore this product is not classified as a carcinogen. None of the other components of this product are listed as carcinogens by OSHA, IARC, NTP, or the EU CLP.
<u>Mutagenicity:</u> No data available. This product is not expected to cause mutagenicity activity.
<u>Aspiration Hazard:</u> Not an aspiration hazard
<u>Acute Toxicity Data:</u> Silica Filler: No toxicity data available Diatomaceous earth, flux calcined (kieselguhr): Oral rat LD50 > 2000 mg/kg; Inhalation rat LC50 > 2.6 mg/L/4 hr (maximum attainable concentration)

White Mineral Oil: Oral rat LD50: >5000 mg/kg, Inhalation rat LC50: >5 mg/L/4hr, Skin rabbit LD50: >2000 mg/kg
 Aluminum Hydroxide: Oral rat LD50: >2000 mg/kg
 Cristobalite: Skin rat LD50 - >2000 mg/kg; Inhalation rat LC50 - >2.6 mg/L

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

Specific Target Organ Toxicity Single Exposure (STOT-SE): No data available.

Specific Target Organ Toxicity Repeated Exposure (STOT-RE): Cristobalite: Excessive inhalation of respirable Cristobalite dust may cause lung cancer. This product is in a form that no inhalation exposure occurs during normal use and handling.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Diatomaceous earth, flux calcined (kieselguhr): 96 hr LC50 Oncorhynchus mykiss >100 mg/L, 48 hr LD50 daphnia magna >100 mg/L, 72 hr EC50 Desmodesmus subspicatus >100 mg/L

This product is not expected to cause harm to the environment.

12.2 Persistence and Degradability: No data is currently available.

12.3 Bio-accumulative Potential: No data is currently available

12.4 Mobility in Soil: No data is currently available

12.5 Results of PBT and vPvB Assessment: Not required

12.6 Other Adverse Effects: None known

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Waste Treatment Recommendations: Treat in accordance with national and local regulations.

14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
DOT	None	Not Regulated	None	None	None
ADR/RID	None	Not Regulated	None	None	None
IMDG	None	Not Regulated	None	None	None
IATA/ICAO	None	Not Regulated	None	None	None

14.6 Special Precautions for User: Not applicable.

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable - product

is transported only in packaged form.

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

U.S. Federal Regulations

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 of this product are listed on the TSCA inventory.

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: Classified as per Section 2 of this SDS according to OSHA HazCom 2012 GHS classification.

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): None

State Regulations

California: This product does not contain any chemicals known to the State of California to cause cancer and/or reproductive harm.

International Regulations

Canadian Environmental Protection Act: This product contains a component that is listed on the Non-Domestic Substance List (NDSL).

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: This product contains a component that is not listed on the Japanese ENCS lists.

Philippine Inventory of Chemicals and Chemical Substances: All of the components in this product are listed on the PICCS.

Korean Existing Chemicals List: All of the components in this product are listed on the KECL for Korea.

15.2 Chemical Safety Assessment: None required.

16. OTHER INFORMATION

HMIS Hazard Rating:

Health – 1 Flammability – 0 Physical Hazard – 0

Full text of Classification abbreviations used in Section 2 and 3:

Asp. Tox. 1 Aspiration Hazard Category 1

Carc. 1 Carcinogenicity Category 1

STOT RE 1 Specific Target Organ Toxicity – Repeat Exposure Category 1

H304 May be fatal if swallowed and enters airways.

H350 May cause cancer.

H372 Causes damage through prolonged or repeated exposure.

Supersedes: 29 June 2015

Revision Date: 25 August 2017

Revision Summary: 3 Year update. Classification revision. Changes to all sections.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, ECHA Registered Substances, C&L Inventory, Country websites for occupational exposure limits.