

MATERIAL SAFETY
DATA SHEET

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DIVISION: DENTAL PRODUCTS

TRADE NAME:

3M FILTEK Z250 UNIVERSAL RESTORATIVE PASTE

ID NUMBER/U.P.C.:	41-5300-6441-3	-	-	-	70-2010-2225-1	+H-44447-54127-0
	70-2010-2226-9	+H-44447-54228-0			70-2010-2227-7	+H-44447-54329-0
	70-2010-2228-5	+H-44447-5442A-0			70-2010-2229-3	+H-44447-5452B-0
	70-2010-2230-1	+H-44447-5462C-0			70-2010-2231-9	+H-44447-5472D-0
	70-2010-2232-7	+H-44447-5482E-0			70-2010-2233-5	+H-44447-5492F-0
	70-2010-2234-3	+H-44447-55027-0			70-2010-2235-0	+H-44447-55128-0
	70-2010-2236-8	+H-44447-55229-0			70-2010-2237-6	+H-44447-5532A-0
	70-2010-2238-4	+H-44447-5542B-0			70-2010-2241-8	+H-44447-5572E-0
	70-2010-2242-6	+H-44447-5582F-0			70-2010-2243-4	+H-44447-5592G-0
	70-2010-2244-2	+H-44447-56028-0			70-2010-2245-9	+H-44447-56129-0
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	70-2010-2248-3	+H-44447-5642C-0			70-2010-2249-1	+H-44447-5652D-0
	70-2010-2250-9	+H-44447-5662E-0			70-2010-2251-7	+H-44447-5672F-0
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	70-2010-2254-1	-			70-2010-2259-0	-
	70-2010-2260-8	-			70-2010-2564-3	+H-44447-8802D-0
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	70-2010-2567-6	+H-44447-8832G-0			70-2010-2568-4	+H-44447-8842H-0
	70-2010-2569-2	+H-44447-8852I-0			70-2010-2570-0	+H-44447-8862J-0
	70-2010-2571-8	+H-44447-8872K-0			70-2010-2572-6	+H-44447-8882L-0
	70-2010-2573-4	+H-44447-8892M-0			70-2010-2574-2	+H-44447-8902E-0
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	70-2010-2599-9	+H-44447-9152C-0			70-2010-2620-3	+H-44447-9362F-0
	70-2010-2621-1	+H-44447-9372G-0			70-2010-2622-9	+H-44447-9382H-0
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	70-2010-2703-7	+H-44448-01827-0			70-2010-2704-5	+H-44448-01928-0
	70-2010-2707-8	+H-44448-02323-0			70-2010-2708-6	+H-44448-02424-0
	70-2010-2709-4	+H-44448-02525-0			70-2010-2710-2	+H-44448-02626-0

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ID NUMBER/U.P.C.:	70-2010-2711-0	+H-44448-02727-0	70-2010-2712-8	+H-44448-02828-0
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	70-2010-2715-1	+H-44448-03122-0	70-2010-2716-9	+H-44448-03223-0
	70-2010-2717-7	+H-44448-03324-0	70-2010-2718-5	+H-44448-03425-0
	70-2010-2720-1	+H-44448-03627-0	70-2010-2723-5	+H-44448-0392A-0
	70-2010-2724-3	+H-44448-04022-0	70-2010-2725-0	+H-44448-04123-0
	70-2010-2726-8	+H-44448-04224-0	70-2010-3118-7	+H-44451-4682A-0
	70-2010-3135-1	+H-44451-48529-0	70-2010-3177-3	+H-44451-52726-0
	70-2010-3178-1	+H-44451-52827-0		

ISSUED: JANUARY 16, 2001
 SUPERSEDES: DECEMBER 21, 2000
 DOCUMENT: 08-2286-6

1. INGREDIENT	C.A.S. NO.		PERCENT
SILICA	7631-86-9	55	- 65
ZIRCONIUM OXIDE	1314-23-4	15	- 25
BISPHENOL A POLYETHYLENE GLYCOL DIETHER DIMETHACRYLATE	41637-38-1	3	- 8
11,14-dIOXA-2,9-DIAZAHEPTADEC-16- ENOIC ACID, 4,4,6,16-TETRAMETHYL- 10,15-DIOXO-, 2-[(2-METHYL-1-OXO-2- PROPENYL)OXY]ETHYL ESTER	41137-60-4	3	- 8
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE	1565-94-2	2	- 6
METHACRYLOXYPROPYLTRIMETHOXYSILANE ...	2530-85-0	2	- 6
ALUMINUM OXIDE	1344-28-1	0.5	- 1.5
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	0.4	- 1.2

2. PHYSICAL DATA

BOILING POINT:..... N/A
 VAPOR PRESSURE:..... N/A
 VAPOR DENSITY:..... N/A
 EVAPORATION RATE:..... nil
 SOLUBILITY IN WATER:..... N/D
 SP. GRAVITY:..... ca. 2.1 g/ml
 PERCENT VOLATILE:..... N/D
 pH:..... N/A
 VISCOSITY:..... ca. 300000 CPS
 MELTING POINT..... N/D
 APPEARANCE AND ODOR: TOOTH COLORED PASTE WITH SLIGHT ACRYLATE ODOR

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
 FLAMMABLE LIMITS - LEL:..... N/D
 FLAMMABLE LIMITS - UEL:..... N/D
 AUTOIGNITION TEMPERATURE: ... N/D

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

EXTINGUISHING MEDIA:

Non-combustible. Choose material suitable for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:

Not determined

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Not determined.

NFPA HAZARD CODES: HEALTH: 1 FIRE: 0 REACTIVITY: 0
UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

None known.

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

None known.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Clean up residue. Place in a closed container.

RECOMMENDED DISPOSAL:

Dispose of waste product in a sanitary landfill.

ENVIRONMENTAL DATA:

Not applicable.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/D.

VOC Less H2O & Exempt Solvents: N/D.

Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies as a reportable quantity.

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: No

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap and large amounts of water. Remove

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6. SUGGESTED FIRST AID (continued)

contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Drink two glasses of water. Call a physician.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear safety glasses with side shields.

SKIN PROTECTION:

Avoid skin contact. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Wear appropriate gloves when handling this material.

VENTILATION PROTECTION:

Use in a well-ventilated area.

RESPIRATORY PROTECTION:

Avoid breathing of vapors. Avoid breathing of dust created by cutting, sanding or grinding.

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store in a cool place. Store out of direct sunlight. Keep container dry.

FIRE AND EXPLOSION AVOIDANCE:

Not applicable.

OTHER PRECAUTIONARY INFORMATION:

For industrial or professional use only. Please see package insert for additional precautionary warnings.

		EXPOSURE LIMITS					
INGREDIENTS	VALUE	UNIT	TYPE	AUTH	SKIN*		
SILICA	3	mg/m ³	TWA	CMRG			
	AS RESPIRABLE DUST						

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7. PRECAUTIONARY INFORMATION (continued)

INGREDIENTS	EXPOSURE LIMITS		TYPE AUTH	SKIN*
	VALUE	UNIT		
ZIRCONIUM OXIDE	5	mg/m ³	TWA	ACGIH
	as Zr			
ZIRCONIUM OXIDE	10	mg/m ³	STEL	ACGIH
	as Zr			
ZIRCONIUM OXIDE	5	mg/m ³	TWA	OSHA
	as Zr			
ZIRCONIUM OXIDE	10	mg/m ³	STEL	OSHA
	as Zr			
BISPHENOL A POLYETHYLENE GLYCOL DIETHER DIMETHACRYLATE	NONE	NONE	NONE	NONE
11,14-dIOXA-2,9-DIAZAHEPTADEC-16- ENOIC ACID, 4,4,6,16-TETRAMETHYL- 10,15-DIOXO-, 2-[(2-METHYL-1-OXO-2- PROPENYL)OXY]ETHYL ESTER	NONE	NONE	NONE	NONE
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE	NONE	NONE	NONE	NONE
METHACRYLOXYPROPYLTRIMETHOXYSILANE ...	NONE	NONE	NONE	NONE
ALUMINUM OXIDE	1.0	fpcc	TWA	CMRG
ALUMINUM OXIDE	1.0	fpcc	TWA	OSHA
	PROPOSED			
ALUMINUM OXIDE	10	mg/m ³	TWA	OSHAV
	AS DUST			
	OSHA VACATED PEL			
ALUMINUM OXIDE	10	mg/m ³	TWA	ACGIH
	as Al			
ALUMINUM OXIDE	15	mg/m ³	TWA	OSHA
	AS TOTAL DUST			
ALUMINUM OXIDE	5	mg/m ³	TWA	OSHA
	RESPIRABLE			
TRIETHYLENE GLYCOL DIMETHACRYLATE	NONE	NONE	NONE	NONE

* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- OSHAV: Occupational Safety and Health Administration Vacated PEL. Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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8. HEALTH HAZARD DATA**EYE CONTACT:**

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

Moderate Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, itching, and dryness.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system.

IF SWALLOWED:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

Irritation of the Oral Mucosa: signs/symptoms can include bleeding, redness, swelling, and pain of the gums.

SECTION CHANGE DATES**HEADING****SECTION CHANGED SINCE DECEMBER 21, 2000 ISSUE**

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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