

MATERIAL SAFETY
DATA SHEET

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DIVISION: DENTAL PRODUCTS

TRADE NAME:

5904-5907, 3021-3024, AND 8004 RESTORATIVE Z100

| | | | | | | | | |
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| ID NUMBER/U.P.C.: | FH-5000-3639-4 | - | - | - | FH-5000-3640-2 | - | - | - |
| | FH-5000-3651-9 | - | - | - | FH-5000-4246-7 | - | - | - |
| | FH-5000-4247-5 | - | - | - | FH-5000-4248-3 | - | - | - |
| | FH-5000-4249-1 | - | - | - | FH-5000-4250-9 | - | - | - |
| | FH-5000-4251-7 | - | - | - | FH-5000-4252-5 | - | - | - |
| | FH-5000-4253-3 | - | - | - | FH-5000-4254-1 | - | - | - |
| | FH-5000-4255-8 | - | - | - | FH-5000-4256-6 | - | - | - |
| | FH-5000-4257-4 | - | - | - | FH-5000-4258-2 | - | - | - |
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| | 70-2010-0163-6 | +H-44412-29323-0 | - | - | 70-2010-0164-4 | +H-44412-29424-0 | - | - |
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| | 70-2010-0172-7 | +H-44412-29929-0 | - | - | 70-2010-0176-8 | +H-44412-30921-0 | - | - |
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| | 70-2010-0190-9 | - | - | - | 70-2010-0191-7 | - | - | - |
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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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ISSUED: AUGUST 8, 2000

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

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SUPERSEDES: SEPTEMBER 23, 1998
 DOCUMENT: 05-4615-0

| 1. INGREDIENT | C.A.S. NO. | PERCENT | | |
|---|------------|---------|---|------|
| SILANED ZIRCONIA SILICA SYNTHETIC MINERAL | None | 77.0 | - | 87.0 |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE | 1565-94-2 | 5.0 | - | 9.0 |
| TRIETHYLENE GLYCOL DIMETHACRYLATE | 109-16-0 | 5.0 | - | 9.0 |

2. PHYSICAL DATA

BOILING POINT:..... N/A
 VAPOR PRESSURE:..... N/A
 VAPOR DENSITY:..... N/A
 EVAPORATION RATE:..... N/A
 SOLUBILITY IN WATER:..... nil
 SP. GRAVITY:..... ca. 2.1 Water = 1
 PERCENT VOLATILE:..... neglig.
 pH:..... N/A
 VISCOSITY:..... N/A
 MELTING POINT..... N/A
 APPEARANCE AND ODOR: Paste, TOOTH COLORED PASTE, SLIGHT ACRYLATE ODOR

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
 FLAMMABLE LIMITS - LEL:..... N/A
 FLAMMABLE LIMITS - UEL:..... N/A
 AUTOIGNITION TEMPERATURE: ... N/A
 EXTINGUISHING MEDIA:
 Water spray, Carbon dioxide, Dry chemical
 SPECIAL FIRE FIGHTING PROCEDURES:
 Not applicable
 UNUSUAL FIRE AND EXPLOSION HAZARDS:
 Not applicable.
 NFPA HAZARD CODES: HEALTH: 1 FIRE: 0 REACTIVITY: 0
 UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable
 INCOMPATIBILITY - MATERIALS TO AVOID:
 Not applicable.
 HAZARDOUS POLYMERIZATION: Will Not Occur
 HAZARDOUS DECOMPOSITION PRODUCTS:
 Carbon Monoxide and Carbon Dioxide.

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5. ENVIRONMENTAL INFORMATION**SPILL RESPONSE:**

Collect spilled material. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in metal container.

RECOMMENDED DISPOSAL:

Dispose of completely cured (or polymerized) material in a sanitary landfill.

ENVIRONMENTAL DATA:

Not applicable.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/A.
VOC Less H₂O & Exempt Solvents: N/A.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

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:

Flush skin with large amounts of water. If irritation persists, get medical attention. Immediately wash skin with soap and large amounts of water. Remove 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 prolonged or repeated skin contact. A no-touch technique is

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7. PRECAUTIONARY INFORMATION (continued)

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 dust created by cutting, sanding or grinding.

PREVENTION OF ACCIDENTAL INGESTION:
 Do not ingest.

RECOMMENDED STORAGE:
 Store in a cool place. Store away from heat. Keep container dry. Keep container in well-ventilated area.

FIRE AND EXPLOSION AVOIDANCE:
 Keep container tightly closed. Keep away from heat, sparks, open flame, and other sources of ignition.

OTHER PRECAUTIONARY INFORMATION:
 For industrial or professional use only.

| INGREDIENTS | EXPOSURE LIMITS | | TYPE | AUTH | SKIN* |
|---|-----------------|------|------|------|-------|
| | VALUE | UNIT | | | |
| SILANED ZIRCONIA SILICA SYNTHETIC MINERAL | NONE | NONE | NONE | NONE | |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE | NONE | NONE | NONE | NONE | |
| 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:
 - NONE: None Established

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,

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8. HEALTH HAZARD DATA (continued)

blistering, and itching.

Moderate Skin Irritation (after prolonged or repeated contact):
signs/symptoms can include redness, swelling, itching, and dryness.**INHALATION:**Dust from cutting, grinding, sanding or machining may cause
irritation of the respiratory system.**IF SWALLOWED:**

No adverse health effects are expected from swallowing.

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

| | | |
|--------------------------|------------------------------|---------------------------------|
| FIRST AID | SECTION CHANGED SINCE | SEPTEMBER 23, 1998 ISSUE |
| PRECAUT. INFO. | SECTION CHANGED SINCE | SEPTEMBER 23, 1998 ISSUE |
| HEALTH HAZD. DATA | SECTION CHANGED SINCE | SEPTEMBER 23, 1998 ISSUE |

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

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