

MATERIAL SAFETY  
DATA SHEET

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**DIVISION:** DENTAL PRODUCTS  
**TRADE NAME:**  
3M ISO-FORM CROWNS

ID NUMBER/U.P.C.:	70-2004-5873-8	+H-44410-91432-0	70-2004-5874-6	+H-44410-91533-0
	70-2004-5875-3	+H-44410-91634-0	70-2004-5876-1	+H-44410-91735-0
	70-2004-5877-9	+H-44410-91836-0	70-2004-5878-7	+H-44410-91937-0
	70-2004-5879-5	+H-44410-9203%-0	70-2004-5880-3	+H-44410-92130-0
	70-2004-5881-1	+H-44410-92231-0	70-2004-5882-9	+H-44410-92332-0
	70-2004-5883-7	+H-44410-92433-0	70-2004-5884-5	+H-44410-92534-0
	70-2004-5885-2	+H-44410-92635-0	70-2004-5886-0	+H-44410-92736-0
	70-2004-5887-8	+H-44410-92837-0	70-2004-5888-6	+H-44410-92938-0
	70-2004-5889-4	+H-44410-93030-0	70-2004-5890-2	+H-44410-93131-0
	70-2004-5891-0	+H-44410-93232-0	70-2004-5892-8	+H-44410-93333-0
	70-2004-5893-6	+H-44410-93434-0	70-2004-5894-4	+H-44410-93535-0
	70-2004-5895-1	+H-44410-93636-0	70-2004-5896-9	+H-44410-93737-0
	70-2004-5897-7	+H-44410-93838-0	70-2004-5898-5	+H-44410-93939-0
	70-2004-5899-3	+H-44410-94031-0	70-2004-5900-9	+H-44410-94132-0
	70-2004-5901-7	+H-44410-94233-0	70-2004-5902-5	+H-44410-94334-0
	70-2004-5903-3	+H-44410-94435-0	70-2004-5904-1	+H-44410-94536-0
	70-2004-5905-8	+H-44410-94637-0	70-2004-5906-6	+H-44410-94738-0
	70-2004-5907-4	+H-44410-94839-0	70-2004-5908-2	+H-44410-9493A-0
	70-2004-5909-0	+H-44410-95032-0	70-2004-5910-8	+H-44410-95133-0
	70-2004-5911-6	+H-44410-95234-0	70-2004-5912-4	+H-44410-95335-0
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	70-2004-6988-3	+H-44411-17633-0	70-2005-4755-5	+H-44411-52430-0
	70-2005-4756-3	+H-44411-52531-0	70-2005-4757-1	+H-44411-52632-0
	70-2005-4758-9	+H-44411-52733-0	70-2005-4759-7	+H-44411-52834-0
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	70-2005-4772-0	+H-44411-54230-0	70-2005-4773-8	+H-44411-54331-0
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	70-2010-0981-1	+H-44439-9962M-0	70-2010-0982-9	+H-44439-9972N-0
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	70-2010-0987-8	+H-44440-0072/-0	70-2010-0988-6	+H-44440-0082+-0
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	70-2010-0993-6	+H-44440-0182%-0	70-2010-0994-4	+H-44440-01920-0
	70-2010-0995-1	+H-44440-0252/-0	70-2010-0996-9	+H-44440-0262+-0
	70-2010-0997-7	+H-44440-0272%-0	70-2010-0998-5	+H-44440-02820-0
	70-2010-0999-3	+H-44440-02921-0	70-2010-1000-9	+H-44440-0342/-0

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ID NUMBER/U.P.C.:	70-2010-1001-7	+H-44440-0352+-0	70-2010-1002-5	+H-44440-0362%-0
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	70-2010-1005-8	+H-44440-03922-0	70-2010-1006-6	+H-44440-0432/-0
	70-2010-1007-4	+H-44440-0442+-0	70-2010-1008-2	+H-44440-0452%-0
	70-2010-1009-0	+H-44440-04620-0	70-2010-1010-8	+H-44440-04721-0
	70-2010-1011-6	+H-44440-04822-0	70-2010-1012-4	+H-44440-04923-0
	70-2010-1013-2	+H-44440-0522/-0	70-2010-1014-0	+H-44440-0532+-0
	70-2010-1015-7	+H-44440-0542%-0	70-2010-1016-5	+H-44440-05520-0
	70-2010-1017-3	+H-44440-05621-0	70-2010-1018-1	+H-44440-05722-0
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	70-2010-1023-1	+H-44440-0632%-0	70-2010-1024-9	+H-44440-06420-0
	70-2010-1025-6	+H-44440-06521-0	70-2010-1026-4	+H-44440-06622-0
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	70-2010-1901-8	+H-44446-7162A-0	70-2010-1902-6	+H-44446-7172B-0
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	70-2010-1905-9	+H-44446-72025-0	70-2010-1906-7	+H-44446-72126-0
	70-2010-1907-5	+H-44446-72227-0	70-2010-1908-3	+H-44446-72328-0

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ID NUMBER/U.P.C.:	70-2010-1909-1	+H-44446-72429-0	70-2010-1910-9	+H-44446-7252A-0
	70-2010-1911-7	+H-44446-7262B-0	70-2010-1912-5	+H-44446-7272C-0
	70-2010-1913-3	+H-44446-7282D-0	70-2010-1914-1	+H-44446-7292E-0
	70-2010-1915-8	+H-44446-73026-0	70-2010-1916-6	+H-44446-73127-0
	70-2010-1917-4	+H-44446-73228-0	70-2010-1918-2	+H-44446-73329-0
	70-2010-1919-0	+H-44446-7342A-0	70-2010-1920-8	+H-44446-7352B-0
	70-2010-1921-6	+H-44446-7362C-0	70-2010-1922-4	+H-44446-7372D-0
	70-2010-1923-2	+H-44446-7382E-0	70-2010-1924-0	+H-44446-7392F-0
	70-2010-1925-7	+H-44446-74027-0	70-2010-1926-5	+H-44446-74128-0
	70-2010-1927-3	+H-44446-74229-0	70-2010-1928-1	+H-44446-7432A-0
	70-2010-1929-9	+H-44446-7442B-0	70-2010-1930-7	+H-44446-7452C-0
	70-2010-1931-5	+H-44446-7462D-0	70-2010-1932-3	+H-44446-7472E-0
	70-2010-1933-1	+H-44446-7482F-0	70-2010-1934-9	+H-44446-7492G-0
	70-2010-1935-6	+H-44446-75028-0	70-2010-1936-4	+H-44446-75129-0
	70-2010-1937-2	+H-44446-7522A-0	70-2010-1938-0	+H-44446-7532B-0
	70-2010-1939-8	+H-44446-7542C-0	70-2010-1940-6	+H-44446-7552D-0
	70-2010-1941-4	+H-44446-7562E-0	70-2010-1942-2	+H-44446-7572F-0
	70-2010-1943-0	+H-44446-7582G-0	70-2010-1944-8	+H-44446-7592H-0
	70-2010-1945-5	+H-44446-76029-0	70-2010-1946-3	+H-44446-7612A-0
	70-2010-1947-1	+H-44446-7622B-0	70-2010-1948-9	+H-44446-7632C-0
	70-2010-1949-7	+H-44446-7642D-0	70-2010-2156-8	+H-44447-4722A-0
	70-2010-2157-6	+H-44447-4732B-0	70-2010-2158-4	+H-44447-4742C-0
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	70-2010-2167-5	+H-44447-4832C-0	70-2010-2168-3	+H-44447-4842D-0
	70-2010-2169-1	+H-44447-4852E-0	70-2010-2170-9	+H-44447-4862F-0
	70-2010-2171-7	+H-44447-4872G-0	70-2010-2172-5	+H-44447-4882H-0
	70-2010-2173-3	+H-44447-4892I-0	70-2010-2174-1	+H-44447-4902A-0
	70-2010-2175-8	+H-44447-4912B-0	70-2010-2194-9	+H-44447-51023-0
	70-2010-2195-6	+H-44447-51124-0	70-2010-2196-4	+H-44447-51225-0

ISSUED: DECEMBER 1, 1997  
 SUPERSEDES: MAY 16, 1997  
 DOCUMENT: 06-2094-8

1. INGREDIENT	C.A.S. NO.	PERCENT		
TIN	7440-31-5	90	-	97
SILVER	7440-22-4	3	-	5

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR PART 372:  
 SILVER

2. PHYSICAL DATA

BOILING POINT:..... N/A

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**2. PHYSICAL DATA (continued)**

VAPOR PRESSURE:..... N/A  
 VAPOR DENSITY: ..... N/A  
 EVAPORATION RATE:..... N/A  
 SOLUBILITY IN WATER: ..... nil  
 SP. GRAVITY:..... N/A  
 PERCENT VOLATILE: ..... N/A  
 pH: ..... N/A  
 VISCOSITY: ..... N/A  
 MELTING POINT..... N/A  
 APPEARANCE AND ODOR: ODORLESS METAL CROWN

**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:  
 Non-combustible. Choose material suitable for surrounding fire.  
 SPECIAL FIRE FIGHTING PROCEDURES:  
 Not applicable  
 UNUSUAL FIRE AND EXPLOSION HAZARDS:  
 Not applicable.  
 NFPA HAZARD CODES: HEALTH: 0 FIRE: 0 REACTIVITY: 0  
 UNUSUAL REACTION HAZARD: none  
 OSHA FIRE HAZARD CLASS: Not applicable

**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. Place in a closed container.

**RECOMMENDED DISPOSAL:**  
 Dispose of waste product in a facility permitted to accept chemical waste.

**ENVIRONMENTAL DATA:**  
 Not applicable.

**REGULATORY INFORMATION:**  
 Volatile Organic Compounds: N/A.

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**5. ENVIRONMENTAL INFORMATION (continued)**

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VOC Less H2O &amp; Exempt Solvents: N/A.

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: No CHRONIC: No

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**6. SUGGESTED FIRST AID**

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**EYE CONTACT:**

No need for first aid is anticipated.

**SKIN CONTACT:**

No need for first aid is anticipated.

**INHALATION:**

No need for first aid is anticipated.

**IF SWALLOWED:**

No need for first aid is anticipated.

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**7. PRECAUTIONARY INFORMATION**

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**EYE PROTECTION:**

Not applicable.

**SKIN PROTECTION:**

Not applicable.

**VENTILATION PROTECTION:**

Not applicable.

**RESPIRATORY PROTECTION:**

Not applicable.

**PREVENTION OF ACCIDENTAL INGESTION:**

Not applicable.

**RECOMMENDED STORAGE:**

Not applicable.

**FIRE AND EXPLOSION AVOIDANCE:**

Not applicable.

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**7. PRECAUTIONARY INFORMATION (CONTINUED)**

INGREDIENTS	EXPOSURE LIMITS		TYPE AUTH	SKIN*
	VALUE	UNIT		
TIN .....	2	mg/m <sup>3</sup>	TWA	ACGIH
SILVER .....	0.1	mg/m <sup>3</sup>	TWA	ACGIH
	as Ag			
SILVER .....	0.01	mg/m <sup>3</sup>	TWA	OSHA
	as Ag			

\* 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
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level
- OSHA: Occupational Safety and Health Administration

**8. HEALTH HAZARD DATA**

**EYE CONTACT:**

No adverse health effects are expected from eye contact.

**SKIN CONTACT:**

No adverse health effects are expected from skin contact.

**INHALATION:**

No adverse health effects are expected from inhalation exposure.

**IF SWALLOWED:**

No adverse health effects are expected from swallowing.

**SECTION CHANGE DATES**

ENVIRON. DATA SECTION CHANGED SINCE MAY 16, 1997 ISSUE

3M General Offices

3M Center  
St. Paul, MN 55144-1000  
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09-31  
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SECTION CHANGE DATES

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

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