



Material Safety Data Sheet

Copyright, 2008, 3M Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) ESPE(TM) ISO-FORM CROWNS
MANUFACTURER: 3M
DIVISION: 3M ESPE Dental Products

ADDRESS: 3M Center
 St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 10/08/2008
Supersedes Date: 10/21/2003

Document Group: 06-2094-8

Product Use:

Intended Use: Dental Product
 Limitations on Use: For use only by dental professionals
 Specific Use: Temporary dental crown

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
TIN-SILVER ALLOY	Mixture	100

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: Odorless, metal crown
General Physical Form: Solid

Immediate health, physical, and environmental hazards: No immediate health, physical, or environmental hazards are anticipated.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

No health effects are expected.

Skin Contact:

No health effects are expected.

Inhalation:

No health effects are expected.

Ingestion:

No health effects are expected.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

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.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>

5.2 EXTINGUISHING MEDIA

Non-combustible. Choose material suitable for surrounding fire.

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Reclaim undamaged product. Collect as much of the spilled material as possible.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2 STORAGE

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Not applicable.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Not applicable.

8.2.2 Skin Protection

Not applicable.

8.2.3 Respiratory Protection

Not applicable.

8.2.4 Prevention of Swallowing

Not applicable.

8.3 EXPOSURE GUIDELINES

None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Odor, Color, Grade:
General Physical Form:
Autoignition temperature

Odorless, metal crown
Solid
Not Applicable

Flash Point	Not Applicable
Flammable Limits - LEL	Not Applicable
Flammable Limits - UEL	Not Applicable
Boiling point	Not Applicable
Density	Not Applicable
Vapor Density	Not Applicable
Vapor Pressure	Not Applicable
Specific Gravity	Not Applicable
pH	Not Applicable
Melting point	No Data Available
Solubility in Water	Nil
Evaporation rate	Not Applicable
Volatile Organic Compounds	Not Applicable
Percent volatile	Not Applicable
VOC Less H2O & Exempt Solvents	Not Applicable
Viscosity	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

None known.

Condition

During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of waste product in a sanitary landfill.

EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

70-2004-5873-8, 70-2004-5874-6, 70-2004-5875-3, 70-2004-5876-1, 70-2004-5877-9, 70-2004-5878-7, 70-2004-5879-5, 70-2004-5880-3, 70-2004-5881-1, 70-2004-5882-9, 70-2004-5883-7, 70-2004-5884-5, 70-2004-5885-2, 70-2004-5886-0, 70-2004-5887-8, 70-2004-5888-6, 70-2004-5889-4, 70-2004-5890-2, 70-2004-5891-0, 70-2004-5892-8, 70-2004-5893-6, 70-2004-5894-4, 70-2004-5895-1, 70-2004-5896-9, 70-2004-5897-7, 70-2004-5898-5, 70-2004-5899-3, 70-2004-5900-9, 70-2004-5901-7, 70-2004-5902-5, 70-2004-5903-3, 70-2004-5904-1, 70-2004-5905-8, 70-2004-5906-6, 70-2004-5907-4, 70-2004-5908-2, 70-2004-5909-0, 70-2004-5910-8, 70-2004-5911-6, 70-2004-5912-4, 70-2004-5938-9, 70-2004-5939-7, 70-2004-5940-5, 70-2004-5941-3, 70-2004-5942-1, 70-2004-5943-9, 70-2004-5944-7, 70-2004-5945-4, 70-2004-5946-2, 70-2004-5947-0, 70-2004-5948-8, 70-2004-5949-6, 70-2004-5950-4, 70-2004-5951-2, 70-2004-5952-0, 70-2004-5953-8, 70-2004-5954-6, 70-2004-5955-3, 70-2004-5956-1, 70-2004-5957-9, 70-2004-5958-7, 70-2004-5959-5, 70-2004-5960-3, 70-2004-5961-1, 70-2004-5962-9, 70-2004-5963-7, 70-2004-5964-5, 70-2004-5965-2, 70-2004-5966-0, 70-2004-5967-8, 70-2004-5968-6, 70-2004-5969-4, 70-2004-5970-2, 70-2004-5971-0, 70-2004-5972-8, 70-2004-5973-6, 70-2004-5974-4, 70-2004-5975-1, 70-2004-5976-9, 70-2004-5977-7, 70-2004-6983-4, 70-2004-6985-9, 70-2004-6988-3, 70-2005-4755-5, 70-2005-4756-3, 70-2005-4757-1, 70-2005-4758-9, 70-2005-4759-7, 70-2005-4760-5, 70-2005-4761-3, 70-2005-4762-1, 70-2005-4763-9, 70-2005-4764-7, 70-2005-4765-4, 70-2005-4766-2, 70-2005-4767-0, 70-2005-4768-8, 70-2005-4769-6, 70-2005-4770-4, 70-2005-4771-2, 70-2005-4772-0, 70-2005-4773-8, 70-2005-4774-6, 70-2010-0838-3, 70-2010-0981-1, 70-2010-0982-9, 70-2010-0983-7, 70-2010-0984-5, 70-2010-0985-2, 70-2010-0986-0, 70-2010-0987-8, 70-2010-0988-6, 70-2010-0989-4, 70-2010-0990-2, 70-2010-0991-0, 70-2010-0992-8, 70-2010-0993-6, 70-2010-0994-4, 70-2010-0995-1, 70-2010-0996-9, 70-2010-0997-7, 70-2010-0998-5, 70-2010-0999-3, 70-2010-1000-9, 70-2010-1001-7, 70-2010-1002-5, 70-2010-1003-3, 70-2010-1004-1, 70-2010-1005-8, 70-2010-1006-6, 70-2010-1007-4, 70-2010-1008-2, 70-2010-1009-0, 70-2010-1010-8, 70-2010-1011-6, 70-2010-1012-4, 70-2010-1013-2, 70-2010-1014-0, 70-2010-1015-7, 70-2010-1016-5, 70-2010-1017-3, 70-2010-1018-1, 70-2010-1019-9, 70-2010-1020-7, 70-2010-1021-5, 70-2010-1022-3, 70-2010-1023-1, 70-2010-1024-9, 70-2010-1025-6, 70-2010-1026-4, 70-2010-1027-2, 70-2010-1028-0, 70-2010-1029-8, 70-2010-1030-6, 70-2010-1031-4, 70-2010-1032-2, 70-2010-1033-0, 70-2010-1034-8, 70-2010-1035-5, 70-2010-1036-3, 70-2010-1037-1, 70-2010-1038-9, 70-2010-1039-7, 70-2010-1040-5, 70-2010-1041-3, 70-2010-1042-1, 70-2010-1043-9, 70-2010-1044-7, 70-2010-1045-4, 70-2010-1046-2, 70-2010-1047-0, 70-2010-1048-8, 70-2010-1049-6, 70-2010-1050-4, 70-2010-1051-2, 70-2010-1052-0, 70-2010-1053-8, 70-2010-1054-6, 70-2010-1055-3, 70-2010-1056-1, 70-2010-1057-9, 70-2010-1058-7, 70-2010-1059-5, 70-2010-1060-3, 70-2010-1061-1, 70-2010-1062-9, 70-2010-1063-7, 70-2010-1064-5, 70-2010-1065-2, 70-2010-1066-0, 70-2010-1067-8, 70-2010-1068-6, 70-2010-1069-4, 70-2010-1070-2, 70-2010-1071-0, 70-2010-1072-8, 70-2010-1073-6, 70-2010-1074-4, 70-2010-1075-1, 70-2010-1076-9, 70-2010-1077-7, 70-2010-1078-5, 70-2010-1079-3, 70-2010-1080-1, 70-2010-1909-1, 70-2010-1910-9, 70-2010-1911-7, 70-2010-1912-5, 70-2010-1913-3, 70-2010-1914-1, 70-2010-1915-8, 70-2010-1916-6, 70-2010-1917-4, 70-2010-1918-2, 70-2010-1939-8, 70-2010-1940-6, 70-2010-1941-4, 70-2010-1942-2, 70-2010-1943-0, 70-2010-1944-8, 70-2010-1945-5, 70-2010-1946-3, 70-2010-1947-1, 70-2010-1948-9, 70-2010-1949-7

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 0 Flammability: 0 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Reason for Reissue: The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

Revision Changes:

- Section 1: Product use information was modified.
- Section 16: NFPA hazard classification heading was modified.
- Copyright was modified.
- Section 5: Fire fighting procedures information was modified.
- Section 15: 311/312 hazard categories heading was modified.
- Section 15: International regulations information was modified.
- Section 15: State regulations information was modified.
- Section 15: US federal regulations information was modified.

Section 10: Hazardous polymerization heading was modified.
Section 16: NFPA explanation was modified.
Section 15: Inventories information was modified.
Article disclaimer text (following the copyright) was modified.
Section 12: Ecotoxicological information heading was modified.
Section 12: Chemical fate information heading was modified.
Section 16: NFPA hazard classification for special hazards was modified.
Section 16: Reason for reissue heading was modified.
Section 12: Ecotoxicological phrase was modified.
Section 12: Chemical Fate phrase was modified.
Section 2: Ingredient phrase was added.
Section 14: ID Number Heading Template 1 was added.
Section 14: ID Number(s) Template 1 was added.
Section 2: Ingredient table was added.
Section 8: Exposure guidelines information - none - was added.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M.

3M MSDSs are available at www.3M.com