



Material Safety Data Sheet

Copyright, 2011, 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.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M™ ESPE™ LAVA™ ULTIMATE CAD/CAM RESTORATIVE
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: 09/01/11
Supersedes Date: 06/08/11

Document Group: 29-1508-0

Product Use:

Intended Use: Dental Product
Limitations on Use: For use only by dental professionals
Specific Use: Mill block for dental restorations

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
CURED DENTAL RESTORATIVE	None	100

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Solid Block or Slab
Odor, Color, Grade: Characteristic odor, Tooth-colored various shades
General Physical Form: Solid

Immediate health, physical, and environmental hazards: This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact:

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

Inhalation:

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

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: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

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: No unusual fire or explosion hazards are anticipated.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

6.2. Environmental precautions

Not applicable.

Clean-up methods

Not applicable.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid eye contact. Avoid skin contact. Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

7.2 STORAGE

Store under normal warehouse conditions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use in a well-ventilated area.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Indirect Vented Goggles

8.2.2 Skin Protection

Avoid skin contact.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection. Avoid breathing of dust created by cutting, sanding, grinding or machining.

8.2.4 Prevention of Swallowing

Do not ingest. Wash hands after handling and before eating.

8.3 EXPOSURE GUIDELINES

None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Solid Block or Slab
Odor, Color, Grade:	Characteristic odor, Tooth-colored various shades
General Physical Form:	Solid
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>
Boiling Point	<i>Not Applicable</i>
Density	2.1 g/cm ³
Vapor Density	<i>Not Applicable</i>
Vapor Pressure	<i>Not Applicable</i>
Specific Gravity	2.1 [Ref Std: WATER=1]
pH	<i>Not Applicable</i>
Melting point	<i>No Data Available</i>
Solubility in Water	Negligible
Evaporation rate	<i>Not Applicable</i>
Volatile Organic Compounds	<i>Not Applicable</i>
Kow - Oct/Water partition coef	<i>Not Applicable</i>
Percent volatile	<i>Not Applicable</i>
VOC Less H₂O & Exempt Solvents	<i>Not Applicable</i>
Viscosity	<i>Not Applicable</i>

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

None known

10.2 Materials 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. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material.

EPA Hazardous Waste Number (RCRA): Not regulated

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

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

70-2010-7998-8, 70-2010-7999-6, 70-2010-8500-1, 70-2010-8501-9, 70-2010-8502-7, 70-2010-8503-5, 70-2010-8504-3, 70-2010-8505-0, 70-2010-8506-8, 70-2010-8507-6, 70-2010-8508-4, 70-2010-8509-2, 70-2010-8510-0, 70-2010-8511-8, 70-2010-8512-6, 70-2010-8513-4, 70-2010-8514-2, 70-2010-8515-9, 70-2010-8516-7, 70-2010-8517-5, 70-2010-8518-3, 70-2010-8519-1, 70-2010-8520-9, 70-2010-8521-7, 70-2010-8523-3, 70-2010-8524-1, 70-2010-8525-8, 70-2010-8526-6, 70-2010-8527-4, 70-2010-8528-2, 70-2010-8529-0, 70-2010-8530-8, 70-2010-8531-6, 70-2010-8532-4, 70-2010-8533-2, 70-2010-8534-0, 70-2010-8535-7, 70-2010-8536-5, 70-2010-8537-3, 70-2010-8538-1, 70-2010-8539-9, 70-2010-8540-7, 70-2010-8541-5, 70-2010-8542-3, 70-2010-8543-1, 70-2010-8544-9, 70-2010-8545-6, 70-2010-8546-4, 70-2010-8565-4, 70-2010-8566-2, 70-2010-8567-0, 70-2010-8568-8, 70-2010-8569-6, 70-2010-8570-4, 70-2010-8571-2, 70-2010-8572-0, 70-2010-8573-8, 70-2010-8574-6, 70-2010-8575-3, 70-2010-8576-1, 70-2010-8577-9, 70-2010-8578-7, 70-2010-8579-5, 70-2010-8580-3, 70-2010-8581-1, 70-2010-8582-9, 70-2010-8583-7, 70-2010-8584-5, 70-2010-8585-2, 70-2010-8586-0, 70-2010-8587-8, 70-2010-8588-6, 70-2010-8589-4, 70-2010-8590-2, 70-2010-8591-0, 70-2010-8592-8, 70-2010-8593-6, 70-2010-8594-4, 70-2010-8595-1, 70-2010-8596-9, 70-2010-8597-7, 70-2010-8598-5, 70-2010-8599-3, 70-2010-8600-9, 70-2010-8606-6, 70-2010-8607-4, 70-2010-8608-2, 70-2010-8609-0, 70-2010-8610-8, 70-2010-8611-6, 70-2010-8612-4, 70-2010-8613-2, 70-2010-8614-0, 70-2010-8615-7, 70-2010-8616-5, 70-2010-8617-3, 70-2010-8618-1, 70-2010-8619-9, 70-2010-8620-7, 70-2010-8621-5, 70-2010-8622-3, 70-2010-8623-1, 70-2010-8624-9, 70-2010-8625-6, 70-2010-8626-4, 70-2010-8627-2, 70-2010-8628-0, 70-2010-8629-8, 70-2010-8630-6, 70-2010-8631-4, 70-2010-8632-2, 70-2010-8633-0, 70-2010-8634-8, 70-2010-8635-5, 70-2010-8636-3, 70-2010-8637-1, 70-2010-8638-9, 70-2010-8639-7, 70-2010-8640-5, 70-2010-8641-3, 70-2010-8642-1, 70-2010-8643-9, 70-2010-8644-7, 70-2010-8645-4, 70-2010-8646-2, 70-2010-8647-0, 70-2010-8648-8, 70-2010-8649-6, 70-2010-8650-4, 70-2010-8651-2, 70-2010-8652-0, 70-2010-8653-8, 70-2010-8654-6, 70-2010-8655-3, 70-2010-8656-1, 70-2010-8657-9, 70-2010-8658-7, 70-2010-8659-5, 70-2010-8660-3, 70-2010-8661-1, 70-2010-8662-9, 70-2010-8663-7, 70-2010-8664-5, 70-2010-8665-2, 70-2010-8666-0, 70-2010-8667-8, 70-2010-8668-6, 70-2010-8669-4, 70-2010-8670-2, 70-2010-8671-0, 70-2010-8672-8, 70-2010-8673-6, 70-2010-8674-4, 70-2010-8675-1, 70-2010-8676-9, 70-2010-8677-7, 70-2010-8678-5, 70-2010-8679-3, 70-2010-8680-1, 70-2010-8681-9, 70-2010-8682-7, 70-2010-8691-8, 70-2010-8692-6, 70-2010-8693-4

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

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: 1 Flammability: 1 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 name was modified.
Section 1: Product use information was modified.
Section 10: Hazardous decomposition or by-products table was modified.
Page Heading: Product name was modified.
Section 9: Density information was modified.
Section 9: Vapor density value was modified.
Section 9: Vapor pressure value was modified.
Section 9: Boiling point information was modified.
Section 5: Flammable limits (UE) information was modified.
Section 5: Flammable limits (LEL) information was modified.
Section 5: Autoignition temperature information was modified.
Section 5: Flash point information was modified.
Section 9: Property description for optional properties was modified.
Section 9: Specific gravity information was modified.
Section 9: pH information was modified.
Section 9: Melting point information was modified.
Section 9: Solubility in water text was modified.
Section 9: Flash point information was modified.
Section 9: Flammable limits (LEL) information was modified.
Section 9: Flammable limits (UEL) information was modified.
Section 9: Autoignition temperature information was modified.
Section 14: ID Number(s) Template 1 was modified.
Section 2: Ingredient table was modified.

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 USA MSDSs are available at www.3M.com