

MATERIAL SAFETY  
DATA SHEET

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**DIVISION:** DENTAL PRODUCTS  
**TRADE NAME:**  
3M SINGLE BOND ADHESIVE

**ID NUMBER/U.P.C.:** 70-2010-1613-9 +H-44440-63322-0 70-2010-1616-2 +H-44440-63625-0  
70-2010-1617-0 +H-44440-63726-0 70-2010-1618-8 +H-44440-63827-0  
70-2010-1803-6 +H-44446-6192C-0

**ISSUED:** MAY 1, 2000  
**SUPERSEDES:** FEBRUARY 15, 2000  
**DOCUMENT:** 07-8720-0

1. INGREDIENT	C.A.S. NO.	PERCENT		
ETHANOL .....	64-17-5	20	-	50
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE .....	1565-94-2	10	-	30
2-HYDROXYETHYL METHACRYLATE .....	868-77-9	5	-	25
DIMETHACRYLATES .....	1830-78-0	5	-	20
POLYALKENOIC ACID COPOLYMER .....	None	5	-	15
WATER .....	7732-18-5	2	-	8
DIMETHACRYLATES .....	41137-60-4	2	-	8

## 2. PHYSICAL DATA

**BOILING POINT:** ..... ca. 78 C  
**VAPOR PRESSURE:** ..... N/D  
**VAPOR DENSITY:** ..... N/D  
**EVAPORATION RATE:** ..... N/D  
**SOLUBILITY IN WATER:** ..... N/D  
**SP. GRAVITY:** ..... ca. 1.003 g/ml  
**PERCENT VOLATILE:** ..... N/D  
**pH:** ..... ca. 5  
**VISCOSITY:** ..... ca. 15 centistokes  
**MELTING POINT:** ..... N/D  
**APPEARANCE AND ODOR:** LIQUID WITH SLIGHT ODOR

## 3. FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** ..... ca. 70 F  
**FLAMMABLE LIMITS - LEL:** ..... N/D  
**FLAMMABLE LIMITS - UEL:** ..... N/D  
**AUTOIGNITION TEMPERATURE:** ... N/D  
**EXTINGUISHING MEDIA:**  
Water spray, Carbon dioxide, Dry chemical, Foam  
**SPECIAL FIRE FIGHTING PROCEDURES:**  
Not applicable

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

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**3. FIRE AND EXPLOSION HAZARD DATA (continued)**

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**UNUSUAL FIRE AND EXPLOSION HAZARDS:**No unusual fire or explosion hazards are anticipated.  
NFPA HAZARD CODES: HEALTH: 2 FIRE: 3 REACTIVITY: 0  
UNUSUAL REACTION HAZARD: none  
OSHA FIRE HAZARD CLASS: Class IB Flammable Liquid

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**4. REACTIVITY DATA**

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STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

Sparks and/or Flames.

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide.

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**5. ENVIRONMENTAL INFORMATION**

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**SPILL RESPONSE:**

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Collect spilled material.

**RECOMMENDED DISPOSAL:**

Send to 3M Chemolite Plant, Building 47, or to 3M approved hazardous waste disposal facility for incineration.

**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. U.S. EPA Hazardous Waste Number = D001 (Ignitable)

**EPCRA HAZARD CLASS:**

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

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**6. SUGGESTED FIRST AID**

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**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

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**6. SUGGESTED FIRST AID (continued)**

medical attention.

**INHALATION:**

No need for first aid is anticipated.

**IF SWALLOWED:**

Do not induce vomiting. Drink two glasses of water. Call a physician.

**7. PRECAUTIONARY INFORMATION****EYE PROTECTION:**

Avoid eye contact with vapor, spray, or mist.

**SKIN PROTECTION:**

Avoid skin contact. Wear appropriate gloves when handling this material. nitrile rubber

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.

**VENTILATION PROTECTION:**

Do not use in a confined area or areas with little or no air movement. Use in a well-ventilated area.

**RESPIRATORY PROTECTION:**

Avoid prolonged breathing of vapors. Not applicable.

**PREVENTION OF ACCIDENTAL INGESTION:**

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating. Do not ingest.

**RECOMMENDED STORAGE:**

Store in a cool place. Store away from acids. Store away from heat. Store out of direct sunlight.

**FIRE AND EXPLOSION AVOIDANCE:**

Keep container tightly closed. Flammable liquid and vapor.

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
ETHANOL .....	1000	ppm	TWA	ACGIH	
ETHANOL .....	1000	ppm	TWA	OSHA	
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE .....	NONE	NONE	NONE	NONE	
2-HYDROXYETHYL METHACRYLATE .....	NONE	NONE	NONE	NONE	

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**7. PRECAUTIONARY INFORMATION (continued)**

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
DIMETHACRYLATES .....	NONE	NONE	NONE	NONE	NONE
POLYALKENOIC ACID COPOLYMER .....	NONE	NONE	NONE	NONE	NONE
WATER .....	NONE	NONE	NONE	NONE	NONE
DIMETHACRYLATES .....	NONE	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
- NONE: None Established

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

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

**SKIN CONTACT:**

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

Mild Skin Irritation: signs/symptoms can include redness, swelling, and itching.

**INHALATION:**

No adverse health effects are expected from inhalation exposure.

**IF SWALLOWED:**

Swallowing a relatively large amount of this material is unlikely to produce serious illness or death.

**OTHER HEALTH HAZARD INFORMATION:**

Note: This product contains ethanol. In IARC published Monograph No. 44, entitled, "Alcohol Drinking", the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.

**SECTION CHANGE DATES**

PRECAUT. INFO. SECTION CHANGED SINCE FEBRUARY 15, 2000 ISSUE

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