

MATERIAL SAFETY 3M
 DATA SHEET 3M Center
 St. Paul, Minnesota
 55144-1000
 1-800-364-3577 or (651) 737-6501 (24 hours)

Copyright, 2001, Minnesota Mining and Manufacturing 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 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.

DIVISION: 3M ESPE Dental Products

TRADE NAME:

~~PROTEMP 3 ADD ON~~

ID NUMBER/U.P.C.:

70-2011-0891-0 +H-44453-75127-0 70-2011-0892-8 +H-44453-75228-0

70-2011-0893-6 +H-44453-75329-0 70-2011-0894-4 +H-44453-7542A-0

ISSUED: September 19, 2001

SUPERSEDES: September 18, 2001

DOCUMENT: 16-4711-4

1. INGREDIENT	C.A.S. NO.	PERCENT
SILANIZED GLASS POWDER.....	65997-17-3	25.0 - 45.0
ETHANE DIMETHACRYLATE.....	72869-86-4	10 - 30
CYCLOPENTYLDIMETHYLENE DIACRYLATE.....	42594-17-2	10 - 30
BISPHENOL A BIS(3-METHACRYLOYLOXYPROPYL) ETHER		
SUBSTITUTED DIMETHACRYLATE.....	27689-12-9	0 - 15.0
SILANE TREATED SILICA.....	68909-20-6	1.0 - 10.0

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

2. PHYSICAL DATA

BOILING POINT:..... N/A
 VAPOR PRESSURE:..... N/D
 VAPOR DENSITY:..... N/D
 EVAPORATION RATE:..... N/D
 SOLUBILITY IN WATER:..... nil
 SPECIFIC GRAVITY:..... 1.5 Water=1
 PERCENT VOLATILE:..... nil
 pH:..... N/D
 VISCOSITY:..... 27000 centipoise
 MELTING POINT:..... N/D

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

2. PHYSICAL DATA (continued)

APPEARANCE AND ODOR:

Liquid, VARIOUS COLOR, ACRYLIC ODOR

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/D
FLAMMABLE LIMITS - LEL:..... N/D
FLAMMABLE LIMITS - UEL:..... N/D
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:

SAND, CARBON DIOXIDE, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES:

BURNING PRODUCES IRRITANT FUMES, USE BREATHING APPARATUS WITH
INDEPENDENT AIR SUPPLY

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Not determined.

NFPA HAZARD CODES: HEALTH: 1 FIRE: 1 REACTIVITY: 0

UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

VERY HIGH TEMPERATURES

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

None known.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautions from other sections. Ventilate area. Contain spill. Cover with inorganic absorbent material. Collect spilled material. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in a closed container.

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

5. ENVIRONMENTAL INFORMATION (continued)

RECOMMENDED DISPOSAL:

Incinerate in an industrial or commercial facility in the presence of a combustible material.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

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

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:

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:

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

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear safety glasses with side shields.

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

7. PRECAUTIONARY INFORMATION (continued)

SKIN PROTECTION:

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

RECOMMENDED VENTILATION:

Use in a well-ventilated area.

RESPIRATORY PROTECTION:

Avoid prolonged breathing of vapors.

PREVENTION OF ACCIDENTAL INGESTION:

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

RECOMMENDED STORAGE:

Store away from areas where product may come into contact with food or pharmaceuticals. Store at temperatures which are below 80 degrees F (26 degrees C).

FIRE AND EXPLOSION AVOIDANCE:

Not applicable.

HMIS HAZARD RATINGS: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0
PERSONAL PROTECTION: B

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
SILANIZED GLASS POWDER.....	10	MG/M3	TWA	3M	
		AS DUST			
URETHANE DIMETHACRYLATE.....	NONE	NONE	NONE	NONE	
DICYCLOPENTYLDIMETHYLENE DIACRYLATE.....	NONE	NONE	NONE	NONE	
BISPHENOL A BIS(3- METHACRYLOYLOXYPROPYL) ETHER SUBSTITUTED DIMETHACRYLATE.....	NONE	NONE	NONE	NONE	
SILANE TREATED SILICA.....	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:

- 3M: 3M Recommended Exposure Guidelines

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

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
------------	-------	------	------	------	-------

- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Single exposure may cause:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Contact with the skin during product use is not expected to result in significant irritation.

Single exposure may cause:

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

INHALATION:

Vapors of the uncured product may cause irritation of the respiratory system.

IF SWALLOWED:

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

SECTION CHANGE DATES

HEADING SECTION CHANGED SINCE September 18, 2001 ISSUE

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

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.