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3M General Offices  
3M Center  
St. Paul, Minnesota 55144-1000  
612/733-1110

MATERIAL SAFETY  
DATA SHEET



DIVISION: CERAMIC MATERIALS DEPARTMENT  
TRADE NAME:  
3M BRAND FIRE BARRIER MOLDABLE PUTTY PADS, STRIPS & STIX

3M I.D. NUMBER: 80-6103-2257-2 80-6103-2258-0 98-0400-0876-9 98-0400-0879-3  
98-0400-0912-2 98-0400-1245-6

ISSUED: AUGUST 17, 1993  
SUPERSEDES: JUNE 25, 1993  
DOCUMENT: 11-0740-8

1. INGREDIENT	C.A.S. NO.	PERCENT		
ALUMINA TRIHYDRATE .....	21645-51-2	30.0	-	40.0
HEAT RESISTANT PLASTICIZED RUBBER RESIN .....	None	18.0	-	36.0
POLYCHLOROPRENE .....	9010-98-4	10.0	-	15.0
PETROLATUM .....	8009-03-8	5.0	-	10.0
SILICA .....	7631-86-9	1.0	-	5.0
HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES .....	64742-53-6	1.0	-	5.0
AROMATIC HYDROCARBON RESIN .....	Unknown	1.0	-	4.0
TETRAMETHYL THIOPEROXYDICARBONIC DIAMIDE .....	137-26-8		<	3.4
CALCIUM HYDROXIDE .....	1305-62-0	1.0	-	3.0
WATER .....	7732-18-5	1.0	-	3.0

NOTE: HEAT RESIS. PLAS. RUBBER RESIN HAS N.J. TRADE SECRET #04499600-5226P  
LIGHT NAPHTHENIC PETROLEUM DISTILLATE IS SEVERELY HYDROTREATED.

2. PHYSICAL DATA

BOILING POINT:..... N/A  
VAPOR PRESSURE:..... N/A  
VAPOR DENSITY:..... N/A  
EVAPORATION RATE:..... N/A  
SOLUBILITY IN WATER:..... nil  
SP. GRAVITY:..... 1.620 Water = 1  
PERCENT VOLATILE:..... 0.00 %  
VOLATILE ORGANICS:..... N/A  
VOC LESS H2O & EXEMPT SOLVENT N/D  
pH:..... N/A  
VISCOSITY:..... N/A  
MELTING POINT..... N/D  
APPEARANCE AND ODOR: strips, brown, slight latex odor

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:  
Water, Carbon dioxide, Dry chemical, Foam  
SPECIAL FIRE FIGHTING PROCEDURES:  
Wear full protective clothing, including helmet, self-contained,  
positive pressure or pressure demand breathing apparatus, bunker coat

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

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and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
None known.  
**NFPA-HAZARD-CODES:** HEALTH 1 FIRE 0 REACTIVITY 0  
**UNUSUAL REACTION HAZARD:** none

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**4. REACTIVITY DATA**

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**STABILITY:** Stable  
**INCOMPATIBILITY - MATERIALS TO AVOID:**  
None known.  
**HAZARDOUS POLYMERIZATION:** Will Not Occur  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
Carbon Monoxide and Carbon Dioxide Hydrogen Chloride

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**5. ENVIRONMENTAL INFORMATION**

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**SPILL RESPONSE:**  
Observe precautions from other sections. Collect spilled material.

**RECOMMENDED DISPOSAL:**  
Incinerate in an industrial or commercial facility in the presence of a combustible material. Combustion products will include HCl. Dispose of waste product in a sanitary landfill. Reclaim if feasible.

**ENVIRONMENTAL DATA:**  
Not determined.

**REGULATORY INFORMATION:**  
U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous). Since regulations vary, consult applicable regulations or authorities before disposal.

**SARA HAZARD CLASS:**  
**FIRE HAZARD:** No **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 medical attention.

**INHALATION:**  
Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical

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

attention.

**IF SWALLOWED:**

Drink two glasses of water. Call a physician.

**7. PRECAUTIONARY INFORMATION**

**EYE PROTECTION:**

Avoid eye contact.

**SKIN PROTECTION:**

Avoid prolonged or repeated skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: nitrile rubber, polyethylene/ethylene vinyl alcohol, polytetrafluoroethylene (Teflon), fluoroelastomer (Viton).

**VENTILATION PROTECTION:**

Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

**RESPIRATORY PROTECTION:**

Avoid prolonged breathing of vapors. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator.

**PREVENTION OF ACCIDENTAL INGESTION:**

Do not ingest.

**RECOMMENDED STORAGE:**

Keep out of the reach of children.

**FIRE AND EXPLOSION AVOIDANCE:**

Not applicable.

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
ALUMINA TRIHYDRATE	NONE	NONE	NONE	NONE	
HEAT RESISTANT PLASTICIZED RUBBER					
RESIN	NONE	NONE	NONE	NONE	
POLYCHLOROPRENE	NONE	NONE	NONE	NONE	
PETROLATUM	NONE	NONE	NONE	NONE	
SILICA	NONE	NONE	NONE	NONE	
HYDROTREATED LIGHT NAPHTHENIC					
PETROLEUM DISTILLATES	5	mg/m3	TWA	CMRG	
AROMATIC HYDROCARBON RESIN	NONE	NONE	NONE	NONE	

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7. PRECAUTIONARY INFORMATION (continued)

INGREDIENTS	EXPOSURE LIMITS	VALUE	UNIT	TYPE	AUTH	SKIN*
TETRAMETHYL THIOPEROXYDICARBONIC DIAMIDE		1	mg/m3	TWA	ACGIH	
TETRAMETHYL THIOPEROXYDICARBONIC DIAMIDE		5	mg/m3	TWA	OSHA	
CALCIUM HYDROXIDE		5	mg/m3	TWA	ACGIH	
CALCIUM HYDROXIDE		5	mg/m3	TWA	OSHA	
WATER		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
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Mechanical eye irritation: signs/symptoms can include irritation, redness, scratching of the cornea and tearing.

SKIN CONTACT:

Mechanical skin irritation: signs/symptoms can include itching and redness.

Prolonged or repeated exposure may cause:

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

INHALATION:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

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

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**8. HEALTH HAZARD DATA (continued)**

**REPRODUCTIVE/DEVELOPMENTAL TOXINS:**

TETRAMETHYL THIOPEROXYDICARBONIC DIAMIDE (137-26-8): REPRODUCTIVE EFFECTS - Hens fed maize treated with thiram caused the production of abnormal (soft-shelled) eggs. BIRTH DEFECTS - When pregnant NMRI mice were given oral doses of 10-30 mg/animal from day 5-15 of pregnancy, increased resorption occurred during intermediate and late stages of fetogenesis. Malformations, characteristics by cleft palates, micrognathia, wavy ribs and distorted bones were found in developing fetuses and in pups at term.

**SECTION CHANGE DATES**

HEADING	SECTION CHANGED SINCE	JUNE 25, 1993	ISSUE
FIRE & EXP. DATA	SECTION CHANGED SINCE	JUNE 25, 1993	ISSUE
REACTIVITY DATA	SECTION CHANGED SINCE	JUNE 25, 1993	ISSUE
ENVIRON. DATA	SECTION CHANGED SINCE	JUNE 25, 1993	ISSUE
FIRST AID	SECTION CHANGED SINCE	JUNE 25, 1993	ISSUE
PRECAUT. INFO.	SECTION CHANGED SINCE	JUNE 25, 1993	ISSUE
HEALTH HAZD. DATA	SECTION CHANGED SINCE	JUNE 25, 1993	ISSUE

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

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.