

Duns No.: 00-617-3082

MATERIAL SAFETY  
 DATA SHEET



DIVISION: ADHESIVES, COATINGS AND SEALERS  
 TRADE NAME:  
 P.A.C.-5 B/A (Part A) Panel Adhesive Compound PART NO. 08452  
 3M I.D. NUMBER: 62-3589-1410-9

ISSUED: MAY 5, 1989  
 SUPERSEDES: INITIAL ISSUE  
 DOCUMENT: 11-2748-9

| 1. INGREDIENT  | C.A.S. NO. | PERCENT     | EXPOSURE |                   | LIMITS |      |
|--|------------|-------------|----------|-------------------|--------|------|
|  |            |             | VALUE    | UNIT              | TYPE   | AUTH |
| mercaptan terminated polymer -<br>Vendor Trade Secret (V.T.S.) | V.T.S.     | 85.0 - 95.0 | NONE     | NONE              | NONE   | NONE |
| amorphous silica   | 7631-86-9  | 1.0 - 10.0  | 3        | mg/m <sup>3</sup> | TWA    | ACGI |
| ethylene glycol  | 107-21-1   | 1.0 - 10.0  | 50       | NONE              | NONE   | ACGI |
| carbon black   | 1333-86-4  | 1.0 - 10.0  | 3.5      | mg/m <sup>3</sup> | TWA    | ACGI |
| triethylenediamine   | 280-57-9   | 0.1 - 1.0   | NONE     | NONE              | NONE   | NONE |

SOURCE OF EXPOSURE LIMIT DATA:  
 - ACGIH: American Conference of Governmental Industrial Hygienists  
 - NONE: None Established

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

ethylene glycol

2. PHYSICAL DATA

BOILING POINT:..... N/A  
 VAPOR PRESSURE:..... N/A  
 VAPOR DENSITY:..... N/A  
 EVAPORATION RATE:..... N/A  
 SOLUBILITY IN WATER: ..... 0.1-1.0 %  
 SP. GRAVITY:..... 1.180 Water = 1  
 PERCENT VOLATILE: ..... N/A  
 (0% By Weight)  
 VOLATILE ORGANICS: ..... N/A  
 pH: ..... N/A  
 VISCOSITY: ..... Non-flow paste  
 APPEARANCE AND ODOR: Black, paste, pungent odor.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A  
 (None)  
 FLAMMABLE LIMITS - LEL: ..... N/A  
 FLAMMABLE LIMITS - UEL: ..... N/A  
 AUTOIGNITION TEMPERATURE: ... N/D  
 EXTINGUISHING MEDIA:  
 CO<sub>2</sub>, foam, dry chemical, water  
 SPECIAL FIRE FIGHTING PROCEDURES:  
 Fire fighters should wear self-contained breathing apparatus when fighting fires involving this material.  
 UNUSUAL FIRE AND EXPLOSION HAZARDS:  
 None.  
 NFPA-HAZARD-CODES: HEALTH 1 FIRE 0 REACTIVITY 1  
 UNUSUAL REACTION HAZARD: NONE

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

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#### 4. REACTIVITY DATA

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STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

N/A

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

CO, CO<sub>2</sub>, nitrogen oxides and smoke particles when subjected to excessive heat or flame.

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#### 5. ENVIRONMENTAL INFORMATION

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**SPILL RESPONSE:**

Ventilate the area. Observe the precautions from other sections. Collect spilled materials. Place in a U.S. Department of Transportation - approved metal container, and seal.

**RECOMMENDED DISPOSAL:**

Mix Accelerator with Base. Completely cure and dispose of fully cured waste product in a sanitary landfill. Incinerate uncured bulk product after mixing with flammable material in an industrial or commercial facility. Disposal should be in accordance with applicable regulations.

**ENVIRONMENTAL DATA:**

Volatile Organic Compound (VOC):

Maximum VOC = N/A.

Maximum VOC minus Water minus Exempt Solvents = N/A.

**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 plenty of water for at least 10 minutes. Call a physician.

**SKIN CONTACT:**

Wash affected area with soap and water.

**INHALATION:**

Remove individual to fresh air. Call a physician.

**IF SWALLOWED:**

Do not induce vomiting. Call a physician or poison control center.

**OTHER FIRST AID:**

NONE

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7. PRECAUTIONARY INFORMATION

This product is a kit consisting of two components. The precautions for each part must be observed when separate or mixed. Avoid eye and skin contact. Avoid prolonged breathing of vapors. Provide mechanical exhaust ventilation sufficient to maintain vapor concentrations below recommended exposure limits. Keep container tightly closed when not in use. Keep out of the reach of children.

ADDITIONAL EXPOSURE LIMITS

| INGREDIENTS  | EXPOSURE |       | LIMITS |       |
|--|----------|-------|--------|-------|
|  | VALUE    | UNIT  | TYPE   | AUTH  |
| mercaptan terminated polymer -<br>Vendor Trade Secret (V.T.S.) |          | NONE  | NONE   | NONE  |
| amorphous silica   | 6        | mg/m3 | TWA    | ACGIH |
| ethylene glycol  | 125      | mg/m3 | CEIL   | ACGIH |
| ethylene glycol  | 50       | NONE  | NONE   | OSHA  |
| ethylene glycol  | 125      | mg/m3 | CEIL   | OSHA  |
| carbon black   | 3.5      | mg/m3 | TWA    | OSHA  |
| triethylenediamine   |          | NONE  | NONE   | NONE  |

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: May be irritating to eyes upon direct contact.

SKIN CONTACT: May be irritating to the skin.

INHALATION: Prolonged overexposure may cause respiratory system irritation and temporary light-headedness. Prolonged or repeated overexposure to ethylene glycol may cause blood changes, and liver and kidney damage based on animal studies. Symptoms of overexposure may include headache, dizziness, nausea, vomiting and on extreme overexposure, unconsciousness.

INGESTION: May cause digestive system irritation.

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 product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.