

MATERIAL SAFETY DATA SHEET

WHMIS Hazard Classification: H F R P
2 1 0 B

Date: 9.1.08

SECTION I PRODUCT IDENTIFICATION

Product Identifier: Pro-Seal Power Patch (Part A)
Product Use: To be mixed with part B and C of Pro-Seal system.
Supplier's Name: Pro-Seal Products
Address: 16541 Redmond Way Suite 363C
 Redmond, WA 98052
Emergency Number: (800) 424-9300 **Information:** (800) 349-7325

SECTION II HAZARDOUS INGREDIENT

Compound	%	CAS#	LD ₅₀ Species/Route	LC ₅₀ Species/Route
Bisphenol F resin		28064-14-4	4000mg/kg (rabbit)	6000 mg/kg (rabbit)
Bisphenol A resin		25085-99-8	5000 mg/kg (rat)	2000 mg/kg (rabbit)

No other hazardous component. This product should not be considered a hazardous material.

SECTION III PHYSICAL DATA

Odor & Appearance: Clear, light colored viscous liquid with a mild odor
Odor Threshold: N/A
Physical State: N/A
Specific Gravity: N/A
Vapor Density: Heavier than air
Boiling Point: No Data
pH
Evaporation Rate: Slower than Butyl Acetate
Vapor Pressure: 1.0 mm Hg
Freezing Point: No Data
Solubility in Water: Practically insoluble

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method): (Method, DIN) 400°F Seta Flash **Flammability Limits:** 1400 °F/460°C
 (Not material rating Flash Point)
Auto Ignition Temp: N/A **I.e.I:** No Data **u.e.I: Extinguishing Media:** Use carbon dioxide or dry chemical for small fires, aqueous foam or water for large fires.
Special Fire Fighting Procedures: Remove all ignition sources. Wear self contained breathing apparatus and complete personal protective equipment when entering confined areas where there is a potential of exposure to vapors or products of combustion.
Unusual Fire & Explosion Hazards: Closed containers may rupture (due to build up)
Sensitivity to Static Discharge: N/A
Sensitivity to Impact: N/A

SECTION V REACTIVITY DATA

Stability: Stable
Hazardous Decomposition Products: Fumes produced when heated to decomposition may include: Carbon monoxide and carbon dioxide.
Incompatibility: None
Hazardous Polymerization: Will not occur

SECTION VI TOXICOLOGICAL DATA

Route of Entry: Ingestion, inhalation, skin, eyes

Exposure Limits:

Effects of Acute Exposure:

Ingestion: of this material would be slightly toxic – LD50, 2 to 19 g/kg.

Inhalation: Heating of material can generate vapors that may cause headaches, nausea, dizziness and respiratory irritation.

Skin Contact: may cause moderate injury (reddening, swelling) & transient irritation.

Effects of Chronic Exposure: Sensitizer may cause allergic reaction that can be severe.

Carcinogenicity, Reproductive Toxicity, Teratogenicity, Mutagenicity: A two year painting study on rodents showed no significant carcinogenic effect.

Toxicologically Synergistic Products:

SECTION VII PREVENTATIVE MEASURES

Respiratory Protection: Wear a properly fitted NIOSH/MSHA approved respirator whenever exposure to vapor/mist is likely unless level is below applicable limits.

Ventilation: Local Exhaust: Recommended when appropriate to control employee exposure. Mechanical: Not recommended as sole means of controlling exposure.

Protective Gloves: For operations with contact wear impervious gloves (neoprene).

Eye Protection:

Other Protective Equipment: For operations with contact aprons and rubber foot covering are recommended. Safety shower and eye wash facility should be available.

Leaks or Spill Procedures: Dike spill: absorb with inert material and dispose. Flush area with water. Prevent washing from entering waterways.

Waste Disposal: Incinerate or use bio. Treatment in accordance with all regulations.

Precautions for Handling and Storage: Avoid contamination of skin. Discard contaminated shoes. Wash clothing.

SECTION VIII CONTROL MEASURES/PROTECTION INFORMATION

Emergency and First Aid Procedures:

Eyes: Flush with plenty of water for at least 15 minutes and seek medical attention.

Skin contact: Remove clothing and wash contact area with soap and water for 15 minutes.

Ingestion: If appreciable quantities are swallowed seek medical attention.

Inhalation: If exposed to high concentration of vapor or mist, remove person to fresh air. If breathing has stopped, give artificial respiration and seek medical attention.

SECTION IX PREPARATION INFORMATION

Judgments as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information. Pro-Seal Systems Div ICP, Inc extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

Created By: MF

WHMIS Hazard Classification: H F R P
3 1 0 C

Date: 9.1.08

SECTION I PRODUCT IDENTIFICATION

Product Identifier: Pro-Seal Power Patch (Part B)
Product Use: To be mixed with parts A and C

Supplier's Name: Pro-Seal Products
Address: 16541 Redmond Way Suite 363C
Redmond, WA 98052

Emergency Number: (800) 424-9300 **Fax:** (425) 488-6926
Information: (425) 488-6570

SECTION II HAZARDOUS INGREDIENT

Compound	%	CAS#	LD ₅₀ Species/Route	LC ₅₀ Species/Route
Triethylenetetramine (TETA) Carboxylic acid glycidyl ester adduct	>40	68187-39-3	No Data	No Data
polyoxypropylene diamine	>30	9046-10-0	1.66 g/kg rat/oral	.760 g/kg rabbit/desmal
Triethylenetetramine Bispheno 1A	<30	80-5-7	4.2 g/kg rat/oral	3.0 g/kg rabbit/desmal

SECTION III PHYSICAL DATA

Odor & Appearance: Clear to amber, mobile liquid with an amino odor
Odor Threshold: N/A
Physical State: Liquid **Evaporation Rate:** Slower than butyl acetate
Specific Gravity: (H₂O=1) .98 @ 25° **Vapor Pressure:** 1.0 mm Hg
Vapor Density: Heavier than air **Freezing Point:** No Data
Boiling Point: No Data **Solubility in Water:** Practically insoluble
pH: alkaline

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method): (Method, DIN) 200°F Seta Flash **Flammability Limits:** °F/460°C
(Not material rating Flash Point)
Auto Ignition Temp: 1400 °F/460°C **l.e.l.:** No Data **u.e.l.:**
Extinguishing Media: Use carbon dioxide or dry chemical for small fires, aqueous foam or water for large fires.
Special Fire Fighting Procedures: Remove all ignition sources. Wear self contained breathing apparatus and complete personal protective equipment when entering confined areas where there is a potential of exposure to vapors or products of combustion.
Unusual Fire & Explosion Hazards: Closed containers may rupture (due to pressure build up).
Sensitivity to Static Discharge: N/A **Sensitivity to Impact:** N/A

SECTION V REACTIVITY DATA

Stability: Stable
Hazardous Decomposition Products: None Known
Incompatibility: None
Hazardous Polymerization: Will not occur

SECTION VI TOXICOLOGICAL DATA

Route of Entry: Ingestion, inhalation, skin, eyes.

Exposure Limits:

Effects of Acute Exposure:

Ingestion: of this material would be slightly toxic – LD50, 2 to 19 g/kg.

Inhalation: Heating of material can generate vapors that may cause headaches, nausea, dizziness and respiratory irritation.

Skin Contact: may cause moderate injury (reddening, swelling) & transient irritation.

Effects of Chronic Exposure: Sensitizer may cause allergic reaction that can be severe.

Carcinogenicity, Reproductive Toxicity, Teratogenicity, Mutagenicity: A two year painting study on rodents showed no significant carcinogenic effect.

Toxicologically Synergistic Products:

SECTION VII PREVENTATIVE MEASURES

Respiratory Protection: Wear a properly fitted NIOSH/MSHA approved respirator whenever exposure to vapor/mist is likely unless level is below applicable limits.

Ventilation: Local Exhaust: Recommended when appropriate to control employee exposure.

Protective Gloves: For operations with contact wear impervious gloves (neoprene)

Eye Protection:

Other Protective Equipment: For operations with contact aprons and rubber, foot covering are recommended. Safety shower and eye wash facility should be available.

Leaks or Spill Procedures: Dike spill: absorb with inert material and dispose. Flush area with water. Prevent washing from entering waterways.

Waste Disposal: Incinerate or use bio. Treatment in accordance with all regulations.

Precautions for Handling and Storage: Avoid contamination of skin. Discard contaminated shoes. Wash clothing.

Storage Requirements:

SECTION VIII CONTROL MEASURES/PROTECTION INFORMATION

Emergency and First Aid Procedures:

Eyes contact: Flush with plenty of water for at least 15 minutes and seek medical attention.

Skin contact: Remove clothing and wash contact area with soap and water for 15 minutes.

Ingestion: If appreciable quantities are swallowed seek medical attention.

Inhalation: If exposed to high concentration of vapor or mist, remove person to fresh air. If breathing has stopped, give artificial respiration and seek medical attention.

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MATERIAL SAFETY DATA SHEET

WHMIS Hazard Classification: H F R P
3 1 0 C

Date: 9.1.08

SECTION I PRODUCT IDENTIFICATION

Product Identifier: Pro-Seal Power Patch (Part C)
Product Use: To be mixed with parts A and B

Supplier's Name: Pro-Seal Products
Address: 16541 Redmond Way Suite 363C
 Redmond, WA 98052

Emergency Number: (800) 424-9300 **Fax:** (425) 488-6926
Information: (425) 488-6570

SECTION II HAZARDOUS INGREDIENT

Compound	%	CAS#	LD₅₀ Species/Route	LC₅₀ Species/Route
Ca Si O ₃	>10	13983-17-0	N/A	N/A
Si O ₂	< 60	112926-00-8	N/A	N/A
Al ₂ O ₃	> 5	1344-28-1	N/A	N/A
MICA	<10			
(C ₆ H ₁₀ O ₅)	< 5			
Oxides of silicon, calcium, aluminum, magnesium and boron fused in an amorphous vitreous state.	5%			

SECTION III PHYSICAL DATA

Odor & Appearance: Brown color mineral mixture with no odor
Odor Threshold: N/A

Physical State: Powder **Evaporation Rate:** None
Specific Gravity: (H₂O=1) .2.9 – 3.0 **Vapor Pressure:** @ 20°C: 0.0
Vapor Density: Heavier than air **Freezing Point:** No Data
Boiling Point: Non-Liquid **Solubility in Water:** Practically insoluble
pH: Slight alkaline

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method): (Method, DIN) Non-Flammable **Flammability Limits:**
I.e.I: No Data **u.e.I:**

Auto Ignition Temp:
Extinguishing Media: Water will not burn under any normal conditions.
Special Fire Fighting Procedures: Not required, smother with sand or use water.
Unusual Fire & Explosion Hazards: Closed containers may rupture (due to pressure build up).
Sensitivity to Static Discharge: N/A
Sensitivity to Impact: N/A

SECTION V REACTIVITY DATA

Stability: Stable
Hazardous Decomposition Products: None Known
Incompatibility: None
Hazardous Polymerization: Will not occur

SECTION VI TOXICOLOGICAL DATA

Route of Entry: Ingestion, inhalation, skin, eyes.

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