Permatex, Inc. 10 Columbus Blvd. Hartford, CT 06106

Telephone: 1-87-Permatex

(877) 376-2839

Emergency: 800-255-3924

# **Material Safety Data Sheet**

#### 1. PRODUCT IDENTIFICATION

Product Name:

14600 COLD WELD BONDING COMPOUND 20Z. PART 2

Item No: Product Type:

PTX203008G Curing agent

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	ACGIH 8 Hr. TWA:	OSHA 8 Hr. TWA:
MERCAPTAN POLYMER MIXTURE	60-70		
NEPHELINE SYENITE 37244-96-5	15-25	10 mg/m3 TWA inhal.	5 mg/m3 TWA respir.
TALC 14807-96-6	1-10	2 mg/m3 respir. dust TWA	2 mg/m3 TWA
2,4,6- TRIS(DIMETHYLAMINOMETHYL)P HENOL 90-72-2	1-10		
TREATED SILICON DIOXIDE, SYNTHETIC, CRYSTALLINE-FREE 67762-90-7	1-10		10 mg/m3 total dust
SILICA, QUARTZ 14808-60-7	0.05-0.10	0.05 mg/m3 TWA respirable	0.1 mg/m3 TWA respirable

# 3. HAZARDS IDENTIFICATION

Toxicity:

May cause eye, skin and respiratory irritation. May be harmful if swallowed. The aminophenol can cause severe irritation and may be corrosive on prolonged contact. It may be a sensitizer. It can also be corrosive to eye tissue, leading to permanent injury including blindness. It may irritate the respiratory tract and may cause delayed lung damage upon overexposure to fumes or vapors. It can cause fatigue, muscular weakness, labored breathing or gastrointestinal irritation if swallowed. The relatively low concentration of the aminophenol in the product may minimize some or all of these effects. This product contains encapsulated silicon dioxide (quartz silica). No exposure to free respirable silica is anticipated during normal use of this product. Silica may be released by grinding or machining of coated material. Use NIOSH-approved dust/mist respirator when grinding or machining. When heated to temperatures above 300 degrees F. in the presence of air, this product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde.

Eye and skin contact, ingestion, inhalation.

Primary Routes of Entry: Signs and Symptoms of Exposure:

Eyes: Exposure to liquid or vapor causes mild eye irritation. Symptoms may include burning, tearing,

redness, stinging, blurred vision and corneal injury. Ingestion may cause nausea and vomiting. Inhaling may cause mild irritation to the nose, throat and respiratory tract and may result in central nervous system (CNS) depression. Inhalation overexposure may cause irritation, coughing and flu-

like symptoms. Skin redness.

Ingredients	Percent	NTP:	ACGIH Carcinogens	IARC:
SILICA, QUARTZ 14808-60-7	0.05-0.10	Known Carcinogen		Group 1; Vol. 68; 1997

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# **Material Safety Data Sheet**

#### 1. PRODUCT IDENTIFICATION

**Product Name:** 14600P COLD WELD BONDING COMPOUND PART 1

Item No: PTX202005G **Product Type: Epoxy resin** 

### **COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients	Percent	ACGIH 8 Hr. TWA:	OSHA 8 Hr. TWA:	
EPOXY RESIN	40-50	Not established	Not established	
(EPICHLOROHYDRIN,				
BISPHENOL A)				
25085-99-8				
BARIUM SULFATE	30 -40	10 mg/m <sup>3</sup> ; total dust	5 mg/m³ resp. dust	
7727-43-7				
NEPHELINE SYENITE	15-25	10 mg/m <sup>3</sup> TWA inhal.	5 mg/m <sup>3</sup> TWA respir.	
37244-96-5			-	
IRON OXIDE BLACK	1-10	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	
1317-61-9				
ELASTOMER MODIFIED	1-10	Not Listed	Not Listed	
DIGLYCIDYL ETHER				
68909-14-8				
TREATED SILICON DIOXIDE,	1-10	Not Listed	10 mg/m <sup>3</sup> total dust	
SYNTHETIC, CRYSTALLINE-FREE				
67762-90-7				

# 3. HAZARDS IDENTIFICATION

Toxicity:

Note: This product does not contain microcyrstalline silica. May cause eye and skin irritation. May cause skin sensitization. Exposure to vapors or mist may result in irritation of the respiratory tract. Repeated and prolonged inhalation of iron oxide dust may cause a benign pneumoconiosis called siderosis. This is not associated with pulmonary fibrosis unless there is concurrent exposure to other fibrosis-producing materials. When heated to temperatures above 300 degrees F. in the presence of air, this product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde.

**Primary Routes of Entry:** 

Eye and skin contact, ingestion, inhalation.

Signs and Symptoms of Exposure:

May cause skin irritation. Repeated skin contact may cause allergic skin reactions. Slightly irritating to eyes, but does not injure eye tissue. Inhalation overexposure may cause irritation, coughing and flulike symptoms.

Ingredients	Percent	NTP:	ACGIH Carcinogens	IARC:
EPOXY RESIN (EPICHLOROHYDRIN, BISPHENOL A) 25085-99-8	40-50			Bisphenol A; Group 3, Vol. 71, pg 1285; 1999
BARIUM SULFATE 7727-43-7	30 -40		Group A4 - Not classifiable	

Being Aggravated by Exposure:

Medical Conditions Recognized as May aggrevate preexisting dermatitis. Persons with respiratory problems such as emphysema and asthma should avoid inhalation.

#### 4. FIRST AID MEASURES

Ingestion: If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention..

Inhalation: Move to fresh air in case of accidental inhalation of vapors. Oxygen or artificial respiration if needed.

Obtain medical attention.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes If

skin irritation persists, call a physician

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical

attention if irritation persists.

**Product name:** 14600P COLD WELD BONDING

COMPOUND PART 1

5. FIRE FIGHTING MEASURES

Flash Point (°F/C): 485 degrees F. Method: PMCC Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.

**Special Fire-Fighting Procedures:**Firefighters should wear self-contained breathing apparatus. Use water spray to cool exposed containers.

Hazardous Products Formed by Fire or Thermal Carbon monoxide, Aldehydes, Phenolics

**Decomposition:** 

Unusual Fire/Explosion Hazards: None

Lower Explosive Limit: Not determined.
Upper Explosive Limit: Not determined.

#### 6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until

disposal. Prevent from entering waterways or sewers.

# 7. HANDLING AND STORAGE

Storage: Store away from heat. Store in a cool, dry area.

**Handling:** Avoid contact with vapors from heated material. Avoid contact with skin and eyes.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.

Skin: rubber or plastic gloves Wash contaminated clothing before re-use

Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure

limits during the use of this product.

Respiratory Protection: An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the

applicable limits..

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:Black liquidOdor:Epoxy odor.

Boiling Point (°F): Greater than 300 degrees F.

pH: Does not apply
Solubility in Water: Negligible
Specific Gravity: Not determined
VOC Content(Wt.%): None

Vapor Pressure:

Vapor Density (Air=1):

Evaporation Rate:

Not applicable

Heavier than air

<1 (butyl acetate = 1)

### 10. STABILITY AND REACTIVITY

Chemical Stability: STABLE

Hazardous Polymerization: Will autopolymerize at very high temperatures.

Incompatabilities: Acids, Avoid contact with bases and strong oxidizers. Amines.

Conditions to Avoid: Excess heating above 150 degrees F. over long periods of time degrades

the resin.

Hazardous Products Formed by Fire or Thermal Carbon monoxide, Aldehydes, Phenolics

**Decomposition:** 

# 11. TOXICOLOGICAL INFORMATION

See Section 3

#### 12. ECOLOGICAL INFORMATION

No data available

#### 13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.

US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

# 14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Product name: 14600P COLD WELD BONDING

COMPOUND PART 1

**Domestic Ground Transport** 

DOT Shipping Name: Unrestricted Hazard Class: NONE UN/ID Number: None Marine Pollutant: None

**IATA** 

Proper Shipping Name: not regulated

Class or Division: None UN/NA Number: None

<u>IMDG</u>

Proper Shipping: Unrestricted Hazard Class: None UN Number: None

#### 15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

**SARA 313 Information** 

NONE

**CALIFORNIA PROP 65:** 

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA Inventory Status:** 

Listed on Inventory: YES All components of this product are listed (or exempt) on the EPA TSCA inventory.

# **16. OTHER INFORMATION**

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0
Estimated HMIS Classification: HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn. HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Denise Boyd, Health and Safety Manager Revision Date: 03/15/2005

Company: Permatex. Inc. 10 Columbus Blvd. Hartford, CT USA Revision 2

06106

**Telephone Number:** 1-87-Permatex (877) 376-2839

Number:

**Product Name:** 

14600 COLD WELD BONDING COMPOUND 20Z. PART 2

Item No:

PTX203008G

Medical Conditions Recognized as Being Persons with respiratory problems such as emphysema and asthma should avoid inhalation. Preexisting skin disorders.

Aggravated by Exposure:

4. FIRST AID MEASURES

If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by Ingestion:

mouth to an unconscious or convulsing person. Get medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If

breathing is difficult give oxygen. Get medical attention.

Skin Contact: Remove product and immediately flush affected area with water for 15 minutes. Remove

contaminated clothing and shoes. Destroy contaminated leather apparel. Cover the affected area with a sterile dressing and seek medical care. Do not apply greases or ointments. Launder contaminated

clothes prior to reuse.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical

attention if irritation persists.

FIRE FIGHTING MEASURES

Greater than 300 degrees F. Flash Point (°F/C):

Water fog, carbon dioxide, foam, dry chemical. Recommended Extinguishing Media:

Firefighters should wear self-contained breathing apparatus. Use water spray to cool exposed Special Fire-Fighting Procedures:

containers.

Hazardous Products Formed by Fire or

Thermal Decomposition:

Oxides of nitrogen, Hydrogen sulfide, Ammonia

Unusual Fire/Explosion Hazards:

Lower Explosive Limit:

Upper Explosive Limit:

Irritating or toxic gases or fumes may be generated by thermal decomposition or combustion. Not determined.

Not determined.

ACCIDENTAL RELEASE MEASURES

Spill Procedures: Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until

disposal.

HANDLING AND STORAGE

Storage:

Store in a cool, dry area. Keep away from oxidizers. Handling:

Avoid contact with skin and eyes. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Discard contaminated leather gloves and shoes. Wash hands before eating,

drinking, chewing gum, using tobacco or using the toilet.

**EXPOSURE CONTROLS/PERSONAL PROTECTION** 

Eyes:

Safety glasses or goggles.

Skin:

Neoprene or nitrile gloves recommended.

Ventilation:

General; local exhaust ventilation as necessary to control any air contaminants to within their

exposure limits during the use of this product.

**Respiratory Protection:** 

An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the

applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Off-white liquid

Odor: **Boiling Point (°F):** 

Irritating odor. Not determined

pH: Solubility in Water: Alkaline

Specific Gravity:

Moderate Not Determined

VOC Content(Wt.%):

Not determined

Vapor Pressure:

Not Determined

Vapor Density (Air=1):

Heavier than air

**Evaporation Rate:** 

<1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

**Chemical Stability:** 

STABLE

**Hazardous Polymerization:** 

WILL NOT OCCUR

**Product Name:** 

14600 COLD WELD BONDING COMPOUND 20Z. PART 2

Item No:

PTX203008G

Incompatabilities:

Can react vigorously with strong oxidizing agents, mineral acids and strong mineral and organic

bases, especially primary and secondary aliphatic amines. Reaction with some curing agents

produces considerable heat.

Conditions to Avoid:

Hazardous Products Formed by Fire or

Thermal Decomposition:

None anticipated Oxides of nitrogen, Hydrogen sulfide, Ammonia

# 11. TOXICOLOGICAL INFORMATION

See Section 3

#### 12. ECOLOGICAL INFORMATION

No data available

# 13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:

Disposal should be made in accordance with federal, state and local regulations.

US EPA Waste Number:

Not Regulated

#### 14. TRANSPORT INFORMATION

DOT (49CFR 172)

**Domestic Ground Transport** 

DOT Shipping Name:

Unrestricted

**Hazard Class:** 

NONE

**UN/ID Number:** 

None

Marine Pollutant:

None

IATA

Proper Shipping Name:

Unrestricted

Class or Division:

None

**UN/NA Number:** 

NONE

**IMDG** 

Proper Shipping:

Unrestricted

**Hazard Class:** 

None

**UN Number:** 

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical. **NONE** 

# **CALIFORNIA PROP 65:**

No California Prop 65 chemicals are known to be present.

15. REGULATORY INFORMATION

#### **TSCA Inventory Status:**

All components of this product are listed (or exempt) on the EPA TSCA inventory.

#### 16. OTHER INFORMATION

Estimated NFPA Rating:

HEALTH 2, FLAMMABILITY 1, REACTIVITY 0

Estimated HMIS Classification:

HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn. HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By:

Denise Boyd

**Health and Safety Manager** 

Company:

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Product Name: Item No: 14600 COLD WELD BONDING COMPOUND 20Z. PART 2

PTX203008G

**Revision Date:** 

03/05/2002

**Revision Number:** 

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