

Permatex, Inc.
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 Hartford, CT 06106 USA
 Telephone: 1-87-Permatex
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 Emergency: 800-255-3924
 International Emergency: 813-248-0585

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 14600 COLD WELD BONDING COMPOUND 1 OZ. PART 1 RESIN
Item No: VC0075A
Product Type: Epoxy resin

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH TLV: TWA	OSHA PEL:
LIMESTONE 1317-65-3	50-70	Not listed	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable)
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN 25068-38-6	30-60	Not listed	Not Listed
TREATED SILICON DIOXIDE, SYNTHETIC, CRYSTALLINE-FREE 67762-90-7	1-10	10 mg/m ³ total dust TLV	10 mg/m ³ total dust
BENZYL ALCOHOL 100-51-6	<5	Not listed	Not Listed
CARBON BLACK 1333-86-4	0.1-1.0	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA
SILICA, QUARTZ 14808-60-7	0.1-1.0	0.05 mg/m ³ TWA respirable	0.1 mg/m ³ TWA respirable

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye, skin and respiratory irritation. May cause skin sensitization.
Primary Routes of Entry: Eye and skin contact, ingestion, inhalation
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. Skin redness. Repeated skin contact may cause allergic skin reactions. Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory irritation. Ingesting may cause abdominal pain and vomiting.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
BENZYL ALCOHOL 100-51-6	<5	male rat-no evidence; female rat-no evidence; male mice-no evidence; female mice-no evidence		
CARBON BLACK 1333-86-4	0.1-1.0		Group A4 - Not classifiable as a human carcinogen	Group 2B; Monograph 65, 1996
SILICA, QUARTZ 14808-60-7	0.1-1.0		A2 - Suspected Human Carcinogen	Group 1; Monograph 68, 1997 (inhaled)

Medical Conditions Recognized as Being Aggravated by Exposure: Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

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 vapours. Oxygen or artificial respiration if needed. Obtain medical attention.
Skin Contact: Wash off with soap and water. 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.

5. FIRE FIGHTING MEASURES

Flash Point (°F/C): >400°F (204.4°C) PMCC

5. FIRE FIGHTING MEASURES

Recommended Extinguishing Media:
Special Fire-Fighting Procedures:

Carbon Dioxide, Dry Chemicals, Foam.

Firefighters should wear self-contained breathing apparatus. Use water spray to cool exposed containers.

Hazardous Products of Combustion:
Unusual Fire/Explosion Hazards:

Oxides of carbon, Aldehydes, Acid vapors

Irritating or toxic gases or fumes may be generated by thermal decomposition or combustion. Heating above 300°F in the presence of air may cause slow oxidation decomposition and above 500°F may cause polymerization.

Lower Explosive Limit:
Upper Explosive Limit:

Not determined.

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. Discard contaminated leather gloves and shoes.

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 (or to the lowest feasible levels when limits have not been established) 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 liquid

Odor:

Slight

Boiling Point:

>500°F (260°C)

pH:

Neutral

Solubility in Water:

Negligible

Specific Gravity:

1.9

VOC Content(Wt.%):

0

Vapor Pressure:

0.03 mmHg @ 171°F

Vapor Density (Air=1):

>1

Evaporation Rate:

<1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability:

STABLE

Hazardous Polymerization:

WILL NOT OCCUR.

Incompatibilities:

Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines)

Conditions to Avoid:

Excess heating above 150 degrees F. over long periods of time degrades the resin.

Hazardous Products of Combustion:

Oxides of carbon, Aldehydes, Acid vapors

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

Product Name: 14600 COLD WELD BONDING
COMPOUND 1 OZ. PART 1 RESIN

Item No: VC0075A

14. TRANSPORTATION 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: Not regulated
Class or Division: None
UN/ID Number: None

IMDG

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.

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 2, FLAMMABILITY 1, REACTIVITY 1.

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.

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Revision Date: March/19/2008

Revision 2

Number:

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Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 14600 COLD WELD BONDING COMPOUND 1 OZ. PART 2 HARDENER
Item No: VC0076A
Product Type: Curing agent

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH TLV: TWA	OSHA PEL:
LIMESTONE 1317-65-3	50-70	Not listed	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable)
MERCAPTAN AMINE BLEND MIXTURE	30-60	Not listed	Not Listed
TREATED SILICON DIOXIDE, SYNTHETIC, CRYSTALLINE-FREE 67762-90-7	1-10	10 mg/m ³ total dust TLV	10 mg/m ³ total dust
SILICA, QUARTZ 14808-60-7	0.1-1.0	0.05 mg/m ³ TWA respirable	0.1 mg/m ³ TWA respirable
BENZYL ALCOHOL 100-51-6	0.1-1.0	Not listed	Not Listed

3. HAZARDS IDENTIFICATION

Toxicity: 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 .
Primary Routes of Entry: Eye and skin contact, inhalation
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. Repeated skin contact may cause allergic skin reactions. Inhalation of mist or vapor can cause damage to the upper respiratory tract and to the tissue depending on severity of exposure. Effects can range from mild irritation of mucous membranes to severe pneumonitis and destruction of lung tissue. Ingestion may cause nausea and vomiting.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
SILICA, QUARTZ 14808-60-7	0.1-1.0		A2 - Suspected Human Carcinogen	Group 1; Monograph 68, 1997 (inhaled)
BENZYL ALCOHOL 100-51-6	0.1-1.0	male rat-no evidence; female rat-no evidence; male mice-no evidence; female mice-no evidence		

Medical Conditions Recognized as Being Aggravated by Exposure: Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.
Skin Contact: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.
Eye Contact: Flush eyes with clean water for at least 20 minutes while gently holding eyelids open, lifting upper and lower lids. Seek immediate medical care while continuing to flush with water.

5. FIRE FIGHTING MEASURES

Flash Point (°F/C): >200°F (93.3°C) PMCC
Recommended Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical.

Product Name: 14600 COLD WELD BONDING
COMPOUND 1 OZ. PART 2
HARDENER

Item No: VC0076A

5. FIRE FIGHTING MEASURES

Special Fire-Fighting Procedures:

Firefighters should wear self-contained breathing apparatus. Use water spray to cool exposed containers.

Hazardous Products of Combustion:

Oxides of carbon, Oxides of nitrogen, Sulfur dioxide.

Unusual Fire/Explosion Hazards:

Irritating or toxic gases or fumes may be generated by thermal decomposition or combustion.

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 in a cool, dry area. Store away from heat. Keep away from acids and oxidizers.

Handling:

Avoid prolonged skin contact. Keep away from eyes. Discard contaminated leather gloves and shoes. Avoid contact with vapors from heated material. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:

Safety glasses.

Skin:

Neoprene or nitrile gloves recommended.

Ventilation:

General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) 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:

Amber liquid

Odor:

Mercaptan

Boiling Point:

Not determined

pH:

9.5 (5% solution or slurry in water)

Solubility in Water:

Negligible

Specific Gravity:

1.13

VOC Content(Wt.%):

0

Vapor Pressure:

<1 mmHg @ 70°F

Vapor Density (Air=1):

Not determined

Evaporation Rate:

Not determined

10. STABILITY AND REACTIVITY

Chemical Stability:

STABLE

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizers, Acids, Sodium/calcium hypochlorite, Peroxides, Reactive metals (e.g. Na, Ca, zinc), Materials reactive with hydroxyl compounds
Heat.

Conditions to Avoid:

Heat.

Hazardous Products of Combustion:

Oxides of carbon, Oxides of nitrogen, Sulfur dioxide.

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

Product Name: 14600 COLD WELD BONDING
COMPOUND 1 OZ. PART 2
HARDENER

Item No: VC0076A

14. TRANSPORTATION 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: Not regulated
Class or Division: None
UN/ID Number: None

IMDG

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.

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 3, FLAMMABILITY 1, REACTIVITY 1.

Estimated HMIS Classification: HEALTH 3, FLAMMABILITY 1, PHYSICAL HAZARD 0

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