

US Concrete Products, LLC

16 Greenmeadow Drive
Baltimore, MD 21093
Phone (410) 561-8770

Material Safety Data Sheet

OSHA's Hazard Communication Standard,
29 CFR 1910.1200.

IDENTITY: HP Bondit III "A" Component

SECTION I

Manufacturer:	US Concrete Products	Emergency Number:	1-800-424-9300 CHEMTREC
Address:	16 Greenmeadow Drive #202 Timonium, MD 21093	Telephone Number:	(410) 561-8770
		Date Prepared:	04/2007

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Hazardous Components</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACHIH TLV</u>	<u>Hazard Limits</u>	<u>%</u>
2-Propoxy Ethanol	2807-30-9	N/E			
Reaction Product Epoxy Resin Dispersion	25068-38-6	N/E			

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	212°F	Specific Gravity (H₂O =1):	1.07
Vapor Pressure (mm Hg.):	1.3/mmHg	Melting Point:	N/A
Vapor Density (AIR = 1):	Heavier than air	Evaporation Rate:	>1
Solubility in Water:	Complete		
Appearance and Odor:	White liquid, mild odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 200° F Tag Closed Cup **Flammable Limits:LEL** N/D **UEL** N/D

Extinguishing Media: Water spray, dry chemical, CO²

Special Fire Fighting Procedures: Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None.

SECTION V - REACTIVITY DATA

Stability: Stable	Conditions to Avoid:
Incompatibility: None Known	
Hazardous Decomposition or Byproducts: CO, CO ²	
Hazardous Polymerization: Will Not Occur	Conditions to Avoid: None known

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SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: **Inhalation;** No **Skin:** Yes **Ingestion:** Yes

Health Hazards (*Acute and Chronic*): Chronic – No information Available. Moderate skin injury. Inhalation may cause respiratory tract irritation. May irritate skin

Carcinogenicity: NTP: N/D **IARC Monographs:** N/D **OSHA Regulated:** Not regulated

Signs and Symptoms of Exposure: Skin, eye or respiratory tract irritation..

Medical Conditions Generally Aggravated by Exposure: None Known

Emergency and First Aid Procedures: Eyes: Flush with water for at least 15 minutes. Skin: Wash thoroughly with soap and water. Ingestion: Do not induce vomiting; seek medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material Is Released or Spilled: Dike spill. Absorb with inert material. Collect for disposal.

Waste Disposal Method: Incinerate in accordance with Federal, State and Local regulations.

Precautions to Be Taken in Handling and Storing: Keep container closed.

Other Precautions: Avoid contact with skin.

HMIS Hazard Code Health : 2 Flammability : 1 Physical hazard : 0

SECTION VIII - CONTROL MEASURES

Respiratory Protection: NIOSH approved organic cartridge in enclosed areas.

Ventilation: Mechanical (General) Good general ventilation

Protective Gloves: Impervious gloves

Eye Protection: Safety glasses

Other Protective Clothing or Equipment: Long sleeved and long pant work clothing.

Work/Hygienic Practices: Follow practices of good industrial hygiene.

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Material Safety Data Sheet

OSHA's Hazard Communication Standard,
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IDENTITY: HP Bondit III "B" Component

SECTION I

Manufacturer:	US Concrete Products	Emergency Number:	1-800-424-9300 CHEMTREC
Address:	16 Greenmeadow Drive #111 Timonium, MD 21211	Telephone Number:	(410) 243-8856
		Date Prepared:	05/2007

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Hazardous Components</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACHIH TLV</u>	<u>Hazard Limits</u>	<u>%</u>
Modified Amine Adduct		N/E			
Water	7732-18-5	N/E			

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	300°F	Specific Gravity (H₂O = 1):	1.03
Vapor Pressure (mm Hg.):	<2 mmHg	Melting Point:	N/A
Vapor Density (AIR = 1):	Heavier than air	Evaporation Rate: (Butyl Acetate = 1)	>1
Solubility in Water:	Partially soluble		
Appearance and Odor:	Amber liquid, amine odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 160°F(33°F) PMCC **Flammable Limits:** LEL N/D UEL N/D

Extinguishing Media: Water spray, dry chemical, CO²

Special Fire Fighting Procedures: Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None

SECTION V - REACTIVITY DATA

Stability: Stable **Conditions to Avoid:**

Incompatibility: Acids.

Hazardous Decomposition or Byproducts: CO, oxides of nitrogen

Hazardous Polymerization: Will Not Occur **Conditions to Avoid:** None known

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HP Bondit III B Component – cont

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: **Inhalation:** No **Skin:** Yes **Ingestion:** Yes

Health Hazards (*Acute and Chronic*): Chronic: No information available. Moderate skin injury. Inhalation: may cause respiratory tract irritation.

Carcinogenicity: NTP: Not Listed **IARC Monographs:** Not Listed **OSHA Regulated:** Not Regulated

Signs and Symptoms of Exposure: Skin, eye, or respiratory tract irritation.

Medical Conditions Generally Aggravated by Exposure: None known

Emergency and First Aid Procedures: Eyes: Flush immediately for at least 15 minutes. Skin: Wash thoroughly with soap and water. Ingestion: Do not induce vomiting; seek medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material Is Released or Spilled: Dike spill. Absorb with inert material. Collect for disposal.

Waste Disposal Method: Incinerate in accordance with Federal, State, and Local regulations.

Precautions to Be Taken in Handling and Storing: Keep containers closed.

Other Precautions: Avoid contact with skin.

HMIS Hazard Code Health : 2 Flammability : 1 Physical hazard : 0

SECTION VIII - CONTROL MEASURES

Respiratory Protection: NIOSH approved organic cartridge in enclosed areas.

Ventilation: Mechanical (General) Good general ventilation.

Protective Gloves: Impervious Gloves

Eye Protection: Safety Glasses.

Other Protective Clothing or Equipment: Long sleeve and long pant work clothing.

Work/Hygienic Practices: Follow practices of good industrial hygiene.

N/A = Not Applicable

N/D = Not Determined

N/E = Not Established

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Material Safety Data Sheet

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SECTION I

IDENTITY: HP Bondit III Component "C"

Date Prepared: October 25, 2006

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS #	OSHA PEL	Hazard Limits	%
Portland Cement	65997-15-1	5 mg/m ³	(respirable dust)	
Silica Sand	14808-60-7	10 mg/m ³	(respirable dust)	
Polymeric Dispersant	N/A		(respirable dust)	

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	N/A	Specific Gravity (H₂O = 1):	2.20
Vapor Pressure (mm Hg.):	N/A	Melting Point:	N/A
Vapor Density (AIR = 1):	N/A	Evaporation Rate:	N/A
Solubility in Water:	100%	(Butyl Acetate = 1)	
Appearance and Odor:	Gray powder		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A **Flammable Limits: LEL** N/A **UEL** N/A

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: N/A

SECTION V - REACTIVITY DATA

Stability: Stable **Conditions to Avoid:** Moisture, will harden

Incompatibility: Silica will dissolve in hydro-fluoric acid and produce gas.

Hazardous Decomposition or Byproducts: None

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: None known

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: **Inhalation?** Yes **Skin?** No **Ingestion?** No

Health Hazards (Acute and Chronic): Cement when combined with body moisture and wet cement, especially as an ingredient in plastic (unhardened) concrete, can dry the skin and cause alkali burn. Cement dust can irritate the eyes and respiratory system. Chronic: Cement dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the cornea. Hypersensitive individuals may develop an allergic dermatitis. (Cement can contain traces of hexavalent chromium.) Alkaline nature of portland cement may cause skin irritation.

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SECTION VI - HEALTH HAZARD DATA –continued

Carcinogenicity: NTP? Silica dust is probable carcinogen from inhalation

IARC Monographs? Silica dust may be carcinogen if inhaled. Volume 68

OSHA Regulated? Not Regulated

Signs and Symptoms of Exposure: Skin irritation and mucous membrane irritation.

Medical Conditions Generally Aggravated by Exposure: Freshly mixed concrete grout or mortar may cause skin injury. Avoid contact with skin and wash exposed areas promptly with water.

Emergency and First Aid Procedures: If powder gets into eyes, rinse immediately and repeatedly with water and get prompt medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material Is Released or Spilled: Scoop up to collection containers.

Waste Disposal Method: Mix with water.

Precautions to Be Taken in Handling and Storing: Keep containers closed. Protect from moisture.

Other Precautions: Avoid breathing dust.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: NIOSH approved organic respirator in confined areas.

Ventilation: Mechanical (General) Good general ventilation.

Protective Gloves: Rubber Gloves

Eye Protection: Safety Glasses

Other Protective Clothing or Equipment: Long sleeved shirts and pants.

Work/Hygienic Practices: Follow practices of good industrial hygiene.