



# Material Safety Data Sheet

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1. Product and Company Identification	
<b>Supplier</b> IPS, LLC 3828 E 1700 S St George, UT 84790  <b>Company Contact:</b> HA5 Product Services <b>Telephone Number:</b> (866) 500-7326 <b>Web Site:</b> www.holbrookasphalt.com	
<b>Supplier Emergency Phone Number</b> (435) 229-2686	
 <b>Issue Date:</b> 04/15/2009  <b>Product Name:</b> HA5 – High Density Mineral Bond <b>Product Code:</b> HA5	

2. Composition/Information on Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
petroleum asphalt	mixture		10 - 30
bentonite	1302-78-9		1 - 5
carbon black	1333-86-4		1 - 5
kaolin	1332-58-7		0 - 5
silica, quartz	14808-60-7		3 - 7
inert ingredients			<Balance>

<b>EMERGENCY OVERVIEW</b>	
<b>CAUTION! Vapor may cause light-headedness, headache, nausea, loss of coordination and respiratory tract irritation. Causes skin irritation.</b>	
<b>Appearance/Odor: Black/brown liquid, petroleum and wood-like odor</b>	

3. Hazards Identification
<b>Primary Routes(s) Of Entry</b> Inhalation
<b>Eye Hazards</b> May cause eye irritation (burning, tearing, redness or swelling).
<b>Skin Hazards</b> May cause skin irritation and contact dermatitis upon prolonged contact.
<b>Ingestion Hazards</b> May be harmful if swallowed. May cause gastric distress, vomiting and diarrhea.



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## 3. Hazards Identification - Continued

### **Inhalation Hazards**

Exposure to vapors may cause respiratory tract irritation. Inhalation of vapors or mists may cause central nervous system depression, light-headedness, headache, nausea and loss of coordination.

### **Chronic/Carcinogenicity Effects**

This product or one of its ingredients present at 0.1% or more is listed as a carcinogen by NTP, IARC or OSHA. See Section 11 (Toxicological Information) for more details.

## 4. First Aid Measures

### **Eye**

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

### **Skin**

Remove contaminated clothing and shoes. Wash affected areas with soap and water.

### **Ingestion**

Get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim. Call a physician or poison control center immediately.

### **Inhalation**

Remove the person from the contaminated area to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately.

## 5. Fire Fighting Measures

**Flash Point:** >212 °F

**Flash Point Method:** Setaflash

**Lower Explosive Limit:** not available

**Upper Explosive Limit:** not available

### **Fire And Explosion Hazards**

Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes.

### **Extinguishing Media**

Chemical foam, carbon dioxide (CO<sub>2</sub>), water fog or dry chemical.

### **Fire Fighting Instructions**

Firefighters should wear self-contained breathing apparatus and full protective gear.

## 6. Accidental Release Measures

Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Collect and dispose in accordance with applicable regulations. Avoid runoff to waterways and sewers.

## 7. Handling And Storage

### **Handling And Storage Precautions**

Keep containers tightly closed. Store in a cool, dry, well-ventilated area. Do not handle or store near strong oxidants or strong acids. Use only with adequate ventilation.

## 8. Exposure Controls/Personal Protection

### **Engineering Controls**

Use with adequate general and local exhaust ventilation. When used outdoors, stay well away from building air intakes or close and seal the intakes to prevent product from entering building.



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## 8. Exposure Controls/Personal Protection - Continued

### **Eye/Face Protection**

Safety glasses with side shields or goggles recommended.

### **Skin Protection**

Use with chemical-protective gloves to prevent skin contact.

### **Respiratory Protection**

This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

The level of respiratory protection needed should be based on the evaluation of chemical exposures by a health or safety professional. If required, use a NIOSH-approved air purifying respirator with organic vapor cartridge and particulate filter or supplied air respirator.

Occupational Exposure Limits for individual ingredients (if available) are listed below.

### **Ingredient(s) - Exposure Limits**

petroleum asphalt

ACGIH TLV-TWA 0.5 mg/m<sup>3</sup> (inhalable fraction, as benzene-soluble aerosol)

bentonite

ACGIH TLV-TWA 10 mg/m<sup>3</sup> (total dust)

ACGIH TLV-TWA 3 mg/m<sup>3</sup> (respirable dust)

OSHA PEL-TWA 15 mg/m<sup>3</sup> (total dust)

OSHA PEL-TWA 5 mg/m<sup>3</sup> (respirable dust)

carbon black

ACGIH TLV-TWA 3.5 mg/m<sup>3</sup>

OSHA PEL-TWA 3.5 mg/m<sup>3</sup>

kaolin

ACGIH TLV-TWA 2 mg/m<sup>3</sup>

OSHA PEL-TWA 15 mg/m<sup>3</sup>

OSHA PEL-TWA 5 mg/m<sup>3</sup>

silica, quartz

ACGIH TLV-TWA 0.025 mg/m<sup>3</sup>

OSHA PEL-TWA 30mg/m<sup>3</sup> / (%SiO<sub>2</sub>+2) (total dust)

OSHA PEL-TWA 10 mg/m<sup>3</sup> / (%SiO<sub>2</sub>+2) (respirable dust)

## 9. Physical And Chemical Properties

### **Appearance**

Black/brown liquid

### **Odor**

Petroleum and wood-like odor

**Chemical Type:** Mixture

**Physical State:** Liquid

**Boiling Point:** 212-220 °F

**Specific Gravity:** 1.35

**Percent Volatiles:** 42.5

**Vapor Pressure:** 18@77°F

**Vapor Density:** >1

**pH Factor:** 9-10

**Solubility:** dispersible

**Evaporation Rate:** <1



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## 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Incompatible Materials**

Avoid contact with strong oxidizing agents and acids.

**Hazardous Decomposition Products**

Toxic and irritating gases, vapors or fumes, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

## 11. Toxicological Information

**Chronic/Carcinogenicity**

IARC has concluded that the following chemicals in this product are carcinogenic to humans (Group 1): silica, quartz

IARC has concluded that the following chemicals in this product are possibly carcinogenic to humans (Group 2B): carbon black

ACGIH has designated the following chemicals in this product as suspected human carcinogens (A2): silica, quartz

NTP has listed the following chemicals in this product as known human carcinogens: silica, quartz

Risk of cancer depends on duration and level of exposure to this product as a dust or aerosol mist.

**Miscellaneous Toxicological Information**

Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below.

**Ingredient(s) - Toxicological Data**

carbon black

rat LC50: 6750 mg/m<sup>3</sup> 4-hr exposure

silica, quartz

iv-rat LD50: 500 mg/kg bw/Quartz (10-200 um)

## 12. Ecological Information

No specific information available.

## 13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

## 14. Transport Information

Ground Not Restricted

IMDG Not Restricted

IATA Not Restricted

## 15. Regulatory Information

**U.S. Regulatory Information**

Asphalt may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm.

**Ingredient(s) - State Regulations**

petroleum asphalt

New Jersey - Workplace Hazard

Pennsylvania - Workplace Hazard

Massachusetts - Hazardous Substance

15. Regulatory Information - Continued

**Ingredient(s) - State Regulations - Continued**

New York City - Hazardous Substance  
carbon black  
New Jersey - Workplace Hazard  
Pennsylvania - Workplace Hazard  
California - Proposition 65  
Massachusetts - Hazardous Substance  
kaolin  
Pennsylvania - Workplace Hazard  
silica, quartz  
New Jersey - Workplace Hazard  
Pennsylvania - Workplace Hazard  
California - Proposition 65  
Massachusetts - Hazardous Substance

**Canadian Regulatory Information**

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: D2A - Very Toxic

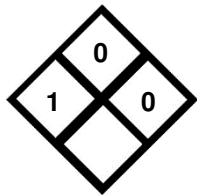
**Ingredient(s) - Canadian Regulatory Information**

carbon black  
WHMIS - Ingredient Disclosure List  
silica, quartz  
WHMIS - Ingredient Disclosure List

**WHMIS - Canada (Pictograms)**



**NEPA**



**HMIS**

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	

16. Other Information

**Revision/Preparer Information**

This MSDS Supersedes A Previous MSDS Dated: 03/04/2007

Disclaimer

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