



Material Safety Data Sheet

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1. Product and Company Identification

Supplier

IPS, LLC

3828 E 1700 S

St George, UT 84790

Company Contact: HA5 Product Services

Telephone Number: (866) 500-7326

Web Site: www.holbrookasphalt.com

Supplier Emergency Phone Number

(435) 229-2686

Issue Date: 04/15/2009

Product Name: HA5 – High Density Mineral Bond

Product Code: 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> |

EMERGENCY OVERVIEW

CAUTION! Vapor may cause light-headedness, headache, nausea, loss of coordination and respiratory tract irritation. Causes skin irritation.

Appearance/Odor: Black/brown liquid, petroleum and wood-like odor

3. Hazards Identification

Primary Routes(s) Of Entry

Inhalation

Eye Hazards

May cause eye irritation (burning, tearing, redness or swelling).

Skin Hazards

May cause skin irritation and contact dermatitis upon prolonged contact.

Ingestion Hazards

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 (CO₂), 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/m³ (inhalable fraction, as benzene-soluble aerosol)

bentonite

ACGIH TLV-TWA 10 mg/m³ (total dust)

ACGIH TLV-TWA 3 mg/m³ (respirable dust)

OSHA PEL-TWA 15 mg/m³ (total dust)

OSHA PEL-TWA 5 mg/m³ (respirable dust)

carbon black

ACGIH TLV-TWA 3.5 mg/m³

OSHA PEL-TWA 3.5 mg/m³

kaolin

ACGIH TLV-TWA 2 mg/m³

OSHA PEL-TWA 15 mg/m³

OSHA PEL-TWA 5 mg/m³

silica, quartz

ACGIH TLV-TWA 0.025 mg/m³

OSHA PEL-TWA 30mg/m³ / (%SiO₂+2) (total dust)

OSHA PEL-TWA 10 mg/m³ / (%SiO₂+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 (CO₂).

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/m³ 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

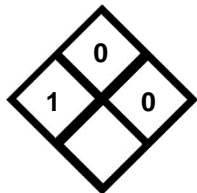
Ingredient(s) - Canadian Regulatory Information

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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