



Asphalt Refining & Technology Company

FILE NO. : 0002  
MSDS DATE: 10 / 10 / 07

## Performance Graded Binder

---

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

---

**PRODUCT NAME:** Performance Graded Binder (Covers PG76-22, PG67-22 & PG64-22)

**MANUFACTURER:** Asphalt Refining & Technology Co.

**ADDRESS:** 7982 Huey Road  
Douglasville, Ga. 30134

**In Case of EMERGENCY Call:**  
**CHEMTREC 1-800-424-9300** ( 24 Hours / Day )

---

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

---

**INGREDIENT:** Petroleum Asphalt

<u>CAS NO.</u>	<u>% WT</u>
8052-42-4	100%

**OSHA PEL:** Total dust 15mg/m3 TWA. Respirable fraction is limited to 5mg/m3 (related to Particulates not otherwise regulated).

---

### SECTION 3: HAZARDS IDENTIFICATION

---

#### POTENTIAL HEALTH EFFECTS

**EYES:** Vapor or fumes may cause eye irritation or redness. Contact with heated material can cause severe thermal burns.

**SKIN:** Contact with heated material can cause severe thermal burns. Prolonged or repeated contact may cause drying or irritation of the skin.

**INGESTION:** This product may be harmful or fatal if swallowed. May cause dizziness, headache, nausea or vomiting. Material aspirated into the lungs may cause pulmonary injury.

**INHALATION:** Inhalation of vapor or fumes may be irritating to the respiratory system.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Chronic respiratory or skin conditions may be temporarily worsened by exposure to this product.

**SECTION 3 NOTES:** When heated this product may release Hydrogen Sulfide Gas (H<sub>2</sub>S). Vapor spaces of storage tanks or transport vessels may contain a buildup of H<sub>2</sub>S vapor at a harmful level. Ensure adequate ventilation is used to meet PEL's.

---

### SECTION 4: FIRST AID MEASURES

---

**EYES:** Flush eyes with water for at least 15 minutes. Seek immediate medical attention.

**SKIN:** If hot material contacts the skin cool by drenching or soaking with cold water. If available use ice water or ice packs to assist cooling. Do not try to remove cooled asphalt from the skin. Seek medical attention. Medical personnel can remove cooled asphalt with petroleum jelly or mineral oil

For contact with cold material use waterless hand cleaner to remove asphalt then wash affected area with soap and water. If irritation persists seek medical attention.

**INGESTION:** DO NOT induce vomiting as material may be aspirated into the lungs. Seek immediate medical attention.



Asphalt Refining & Technology Company

FILE NO. : 0002  
MSDS DATE: 10 / 10 / 07

## Performance Graded Binder

**INHALATION:** Move affected individual to fresh air. Provide CPR if needed. If breathing is difficult administer oxygen. Obtain immediate medical assistance.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** If this material is aspirated into the lungs it may cause chemical pneumonitis.

---

### SECTION 5: FIRE-FIGHTING MEASURES

---

**FLASH POINT:** >525°F

**METHOD USED:** Cleveland Open Cup

**AUTOIGNITION TEMPERATURE:** >650°F

**NFPA HAZARD CLASSIFICATION**

HEALTH: 1                      FLAMMABILITY: 1                      REACTIVITY: 0  
OTHER: No Water

**HMIS HAZARD CLASSIFICATION**

HEALTH: 1                      FLAMMABILITY: 1                      REACTIVITY: 0

**EXTINGUISHING MEDIA:** Dry Chemical, Carbon Dioxide, Foam. Cool Fire exposed containers with a water fog. Do not use a direct water stream.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use a self contained breathing apparatus and full turnout gear in cases of a sustained fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Treat as a hydrocarbon fire. DO NOT direct a water stream onto hot asphalt or into a vessel containing hot asphalt. Doing so can cause a violent eruption or spreading of hot asphalt.

**HAZARDOUS COMBUSTION PRODUCTS:** Primary combustion products are carbon monoxide and carbon dioxide. Sulfur oxides and hydrogen sulfide may also be released.

---

### SECTION 6: ACCIDENTAL RELEASE MEASURES

---

**CONTAINMENT MEASURES:** If possible to do so safely, isolate source of spill. Contain spilled material with sand, dirt or another inert material.

**CLEANUP/DISPOSAL:** Mix spilled material with an inert absorbent to solidify it. Place solid material in appropriate disposal container. Contact local authorities for proper disposal procedures.

**EMERGENCY PROCEDURES:** See section 5.

---

### SECTION 7: HANDLING AND STORAGE

---

**HANDLING AND STORAGE:** Use care to avoid getting material on the skin or in the eyes. Wash exposed areas with soap and water. Use heat resistant gloves and full face protection when working with or around heated material. Store materials in a well ventilated area away from heat or flame. Keep away from strong oxidizing agents.

**OTHER PRECAUTIONS:** Do not heat material within 25°F of its actual flash point.

---

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

---

**VENTILATION :** Provide sufficient natural or forced ventilation to maintain exposure below PEL's.

**RESPIRATORY PROTECTION:** If unable to maintain PEL's use an appropriately fitted NIOSH approved respirator.



Asphalt Refining & Technology Company

FILE NO. : 0002  
MSDS DATE: 10 / 10 / 07

## Performance Graded Binder

**EYE PROTECTION:** Minimum eye protection should consist of safety glasses. Splash goggles or a full face shield are preferable.

**SKIN PROTECTION:** A long sleeve shirt and pants should be worn when handling this material.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Heat resistant gloves should be used when handling heated material.

**WORK PRACTICES:** Material should be heated to the lowest possible temperature sufficient for use. Only heat material in a well ventilated area and use good industrial hygiene and safety practices to prevent personnel exposure to hazards.

**EXPOSURE GUIDELINES:** See section 2.

---

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

**APPEARANCE:** Black solid.

**ODOR:** Mild to moderate petroleum odor.

**PHYSICAL STATE:** Solid (Liquifies under heat).

**pH AS SUPPLIED:** N/A

**BOILING POINT:** >650°F

**FREEZING POINT:** N/A

**VAPOR PRESSURE (mmHg):** N/A

**VAPOR DENSITY (AIR = 1):** N/A

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.00-1.15

**EVAPORATION RATE:** N/A

**BASIS (=1):**

**SOLUBILITY IN WATER:** Insoluble

---

### SECTION 10: STABILITY AND REACTIVITY

---

**STABILITY:** Stable

**CONDITIONS TO AVOID (STABILITY):** Do not allow hot asphalt to contact water. Violent eruption may occur.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizing agents and water.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Primary components are carbon monoxide and carbon dioxide. Other components may include sulfur oxides and hydrogen sulfide.

**HAZARDOUS POLYMERIZATION:** Will not occur

---

### SECTION 11: TOXICOLOGICAL INFORMATION

---

#### ACUTE & CHRONIC TOXICITY:

**GENERAL PRODUCT INFORMATION:** Hot material can cause thermal burns. Long term exposure of skin to asphalt can increase sensitivity to sunlight and cause discoloration. If ingested in small amounts material may cause mouth and throat irritation as well as gastrointestinal



Asphalt Refining & Technology Company

FILE NO. : 0002  
MSDS DATE: 10 / 10 / 07

### Performance Graded Binder

irritation with the possibility of nausea, vomiting and diarrhea. If aspirated into the lungs the material may cause mild to severe pulmonary damage.

#### LD50/LC50 FOR CHEMICALS THAT MAY BE RELEASED DURING USE:

Hydrogen Sulfide (7783-06-4)  
Inhalation LC50 Rat: 444 PPM  
Inhalation LC50 Mouse: 634 PPM/1H

---

### SECTION 12: ECOLOGICAL INFORMATION

---

**ECOLOGICAL INFORMATION:** This product is not expected to produce significant ecotoxicity when exposed to aquatic environments or organisms.

---

### SECTION 13: DISPOSAL CONSIDERATIONS

---

**WASTE DISPOSAL METHOD:** Disposal as a non hazardous material is anticipated. Contact local authorities for appropriate classification and disposal method. Dispose of in accordance with Federal and State environmental regulations.

---

### SECTION 14: TRANSPORT INFORMATION

---

Product is not regulated unless heated. When hot:

#### U.S. DEPARTMENT OF TRANSPORTATION

**PROPER SHIPPING NAME:** Elevated Temperature Material, n. o. s.  
**ID NUMBER:** UN3257  
**HAZARD CLASS:** 9 (HOT)  
**PACKING GROUP:** III

---

### SECTION 15: REGULATORY INFORMATION

---

#### U.S. FEDERAL REGULATIONS

**OSHA STATUS:** This product is considered hazardous under 29CFR 1910.1200 (Hazard Communication)

**CLEAN AIR ACT:** This product is not listed on the clean air act hazardous pollutants list.

**SARA 313:** This product is not listed under SARA 313.

---

### SECTION 16: OTHER INFORMATION

---

**DATE OF LAST REVISION:** N/A

Reasonable care has been taken in the preparation of this information however the manufacturer makes no warranty express or implied with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, indirect, incidental or consequential damages or injury resulting from its use.