

Material Safety Data Sheet



IDENTITY:

Asphalt Hot Mix

Synonym: Paving Asphalt, Road Asphalt

Section I

Manufacturer	
Hills Materials Company	Emergency Telephone Number (605) 394-3300
P.O. Box 2320	Telephone Number for Information (605) 394-3320
Rapid City, SD 57709	Date Prepared November 19, 2002 (Revised)

Section II—Hazardous Ingredients/Identity Information

Hazardous Components	CAS #	OSHA PEL	ACGIH TLV
Crushed Limestone Aggregate	01317-65-3	5 mg/m ³ (Respirable)	10 mg/m ³
Petroleum Asphalt Cement			
(Asphalt)	8052-42-4	5 mg/m ³ respirable	5 mg/m ³ respirable
(Hydrogen Sulfide)	7783-06-4	10 ppm TWA	10 ppm TWA
Crystalline Silica Sand	14808-60-7	10 mg/m ³ /(%SiO ₂ + 2)	0.05 mg/m ³ respirable

Section III—Physical/Chemical Characteristics

Boiling Point	N/K	Specific Gravity (H₂O = 1)	.9-2.4
Vapor Pressure (mm Hg)	N/K	Melting Point	N/K
Vapor Density (AIR = 1)	> 1	Evaporation Rate (Butyl Acetate = 1)	Negligible

Solubility in Water

Negligible

Appearance and Odor

Extremely hot (300° -350° F) black semi-solid material containing crushed aggregate. Tar/Sulphur-like odor.

Section IV—Fire and Explosion Hazard Data

Flash Point >500° F COC	Flammable Limits	LEL N/K	UEL N/K
Extinguishing Media Dry chemical, CO ₂ , or foam. Do NOT spray water into hot containers.			
Special Fire Fighting Procedures Use self-contained breathing apparatus and full protective equipment.			
Unusual Fire and Explosion Hazards Fumes extremely flammable-keep away from ignition sources.			

Section V—Reactivity Data

Stability Stable	Conditions to Avoid Exposure to ignition sources
Incompatibility (Materials to Avoid) Strong oxidizing agents such as nitrates, peroxides, and chlorates.	
Hazardous Decomposition or Byproducts Hydrogen Sulfide at ambient temp. Concentration will increase with temperature increase.	
Hazardous Polymerization Will not occur	Conditions to Avoid N/A

OSHA 174 Sept. 1985

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation? Yes	Skin? Yes	Ingestion? Unlikely
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Health Hazards *Extremely Hot*

Acute: Hot material will cause severe burns. Fumes may cause irritation of eyes, skin, and lungs.

Chronic: Prolonged skin contact may cause severe irritation, dermatitis.

Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No
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Signs and Symptoms of Exposure

Irritation of eyes, lungs, skin. Nausea, dizziness, headache, shortness of breath.

Medical Conditions Generally Aggravated by Exposure

Pre-existing respiratory conditions

Emergency and First Aid Procedures

Eyes: Flush with clear water for at least 15 minutes. Contact physician immediately.

Skin: Wash with soap and water. Do not attempt to remove cooled material from skin. Seek medical help.

Inhalation: Remove to fresh air.

Ingestion: Do not induce vomiting. Contact physician immediately.

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Scoop up material for re-use.

Waste Disposal Method

Dispose of in accordance with federal, state, and local regulations.

Precautions to Be Taken in Handling and Storing

Transported and handled at extremely high temperatures (300° -350° F). Avoid prolonged or repeated contact with skin or breathing of vapors, mists, or fumes. Launder contaminated clothing before reuse. Keep containers tightly closed. Avoid strong oxidizers. Eliminate all sources of ignition such as flames or sparks.

Other Precautions

Any potential hazard can be minimized by using recommended protective equipment to avoid skin contact and by washing thoroughly after handling.

Section VII—Control Measures

Respiratory Protection

Use NIOSH/OSHA approved SCBA respirator if vapor concentration exceeds permissible exposure limits.

Ventilation:	Local Exhaust Yes	Special N/A
	Mechanical (General) N/A	Other N/A

Protective Gloves Yes-oil resistant	Eye Protection Chemical safety goggles
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Other Protective Clothing or Equipment

Long sleeves.

Work/Hygienic Practices

Assure effectiveness of respiratory protection. Wash skin with soap and water.

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