



Safety Data Sheet

Material Name: Hot Mix Asphalt, Bituminous Concrete (Blacktop)

Section 1 – Product and Company Identification

Manufacturer Information

Peckham Industries Inc.
20 Haarlem Ave.
White Plains, NY 10603
Phone: 914-949-2000
peckham.com

Section 2 – Hazards Identification

GHS Classification:

Acute Toxicity Oral – Category 3
Skin Corrosion/Irritation – Category 1B
Eye Damage/Irritation – Category 1
Skin Sensitization – Category 1
Carcinogenicity – Category 1A
Toxic to Reproduction – Category 2
Specific Target Organ Toxicity Single Exposure – Category 2
Specific Target Organ Toxicity Repeat Exposure – Category 2
Hazardous to the Aquatic Environment Acute – Category 3
Hazardous to the Aquatic Environment Chronic – Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Danger

Hazard Statements

Toxic if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs (lung, liver, kidney, nervous system, skin, spleen, thymus, blood, lymph nodes, testes, bone marrow) through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

Safety Data Sheet

Material name: Hot Mix Asphalt, Bituminous Concrete (Blacktop)

Precautionary Statements

Prevention

Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Do not breathe dusts/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid release to the environment.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

Storage

Store in an appropriate container or containment structure.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 – Composition/ Information on Ingredients

CAS#	Component	Percent
Not Available	Aggregate (crushed stone, sand and gravel)	90-95
Not Available	Petroleum Asphalt Oil	5-10
14808-60-7	Quartz	>1

Component Information/ Information on Non-Hazardous Components

General Product Information

Trace Elements: Hot Mix Asphalt is made from materials mined from the earth and is processed using energy provided by fuels. Trace amounts of naturally occurring, potentially harmful chemical might be detected during chemical analysis.

Section 4 – First Aid Measures

First Aid: Eyes

Flush eye(s) with plenty of water for 15 minutes, while holding eyelids open. Beyond flushing, do not attempt to remove material from eyes except under medical supervision. Contact physician.

Safety Data Sheet

Material Name: Hot Mix Asphalt, Bituminous Concrete (Blacktop)

First Aid: Skin

Hot Material: Remove contaminated clothing and immediately flush in cool water for at least 15 minutes. Apply iced water or cold packs to burned area if burned area is less than 10% of the body surface. Do not attempt to remove material from the burn. Get prompt medical attention. Cold Material: Clean exposed skin with oil dissolving skin cleaner. Do not use solvents or thinners to remove material from the skin.

First Aid: Ingestion

Do not induce vomiting. If conscious, give large amounts of water. Contact a physician immediately.

First Aid: Inhalation

Remove to fresh air if breathing is difficult. Get prompt medical attention if breathing remains difficult or if irritation persists.

Section 5 – Fire Fighting Measures

General Fire Hazards

See Section 9 for Flammability Properties.

May form explosive vapors.

Hazardous Combustion Products

Hydrocarbons.

Extinguishing Media

Agents approved by Class B hazards.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

Section 6 – Accidental Release Measures

Recovery and Neutralization

Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

Materials and Methods for Clean-Up

Personnel involved in cleanup processes should implement controls as identified in section 8 as appropriate.

Keep all ignition sources at least 50 feet away. Avoid personal contact with heated materials. Collect cold material and dispose waste in accordance with local, state and federal regulations.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear appropriate protective equipment and clothing during cleanup.

Environmental Precautions

Prevent materials from entering streams, drainage's or sewers. Spills entering surface waters (or any other watercourse or sewers entering/leading to surface waters) that cause a sheen must be reported to the National Response Center (800)424-8802. None of the components are subject to the reporting requirements of Title III of SARA, 1986 and 40 CFR 372.

Prevention of Secondary Hazards

None.

Safety Data Sheet

Material Name: Hot Mix Asphalt, Bituminous Concrete (Blacktop)

Section 7 – Handling and Storage

Handling Procedures

Do not weld, heat, or drill container. Emptied container may contain hazardous material which may ignite explosively if heated sufficiently. When petroleum asphalt products are heated, potentially irritating emissions may be released. Respirable dust may be generated when hardened asphalt concrete is subjected to mechanical forces, such as in demolition work, surface treatment and recycling of pavement. Tripping accidents have occurred because of asphalt buildup on bottoms of shoes and boots. Materials should be removed regularly to prevent such accidents.

Storage Procedures

Store away from all ignition sources and open flames, in accordance with applicable laws and regulations. Storage containers should be ventilated to reduce fire and explosion hazard, and possible overexposure of personnel to fumes and vapors. Do not store near food and beverages or smoking material. Avoid incompatible materials.

Incompatibilities

Strong oxidizers may react with hydrocarbons. Adding water to hot asphalt presents an explosion hazard.

Section 8 – Exposure Controls/ Personal Protection

Component Exposure Limits

Quartz (14808-60-7)

ACGIH: 0.025 mg/m³ TWA (respirable fraction)

NIOSH: 0.05 mg/m³ TWA (respirable dust)

Engineering Measures

Use local exhaust or general dilution ventilation to control exposure within applicable limits.

Personal Protective Equipment: Respiratory

Not required under normal use and working conditions. For air contamination concentrations which exceed or are likely to exceed applicable exposure limits, use a NIOSH/MSHA approved, contaminate specific air purifying respirator. If such concentrations are sufficiently high that the air purifying respirator is inadequate, or if oxygen adequate to sustain life is not present, use a positive pressure self-contained breathing apparatus. Consult an industrial hygienist for evaluation of exposures. Respirator and/or filter cartridge selection should be based on American National Standards Institute (ANSI) Standards Z88.2 Practices for Respiratory Protection.

Personal Protective Equipment: Hands

Resistant gloves should be worn to protect hands.

Personal Protective Equipment: Eyes

Safety glasses with side shields should be worn as a minimum protection. Wear chemical goggles to prevent eye contact with material.

Personal Protective Equipment: Skin and Body

Normal work clothing (long sleeved shirts and long pants) is recommended.

Safety Data Sheet

Material Name: Hot Mix Asphalt, Bituminous Concrete (Blacktop)

Section 9 – Physical & Chemical Properties

Appearance:	Coarse, black material	Odor:	Petroleum
Physical State:	Solid	pH:	Not Established
Vapor Pressure:	Not Applicable	Vapor Density:	Not Established
Boiling Point:	>350°F	Melting Point:	Not Established
Solubility (H2O):	Not Established	Specific Gravity:	2.2-2.5
Evaporation Rate:	Not Determined	VOC:	Not Determined
Octanol/H2O Coeff:	Not Determined	Flash Point:	Typ. >260°F
Flash Point Method:	Calculated	Upper Flammability Limit:	Not Established
		(UFL):	
Lower Flammability Limit:	Not Established	Burning Rate:	Not Established
(LFL):			
Auto Ignition:	Not Established		

Section 10 – Chemical Stability & Reactivity Information

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Keep away from ignition sources. Avoid contact with incompatible materials.

Incompatible Products

Strong Oxidizers may react with hydrocarbons. Adding water to hot asphalt presents an explosion hazard.

Hazardous Decomposition Products

Carbon monoxide, nitrogen oxide, sulfur dioxide, hydrogen sulfide, and various hydrocarbons may be released by thermal decomposition. Hazardous vapors may collect in enclosed vessels or areas if not properly ventilated.

Section 11 – Toxicological Information

Acute Toxicity

Component Analysis – LD50/LC50

Quartz (14808-60-7)

Oral LD50 Rat 500 mg/kg

Potential Health Effects: Skin Corrosion Property/ Stimulativeness

Heated material can cause severe thermal burns. Emissions may cause mild irritation. There may be an increased sensitivity to sunburn when the skin is exposed to asphalt fumes.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Heated material can cause severe thermal burns. Asphalt fumes may cause eye irritation. Exposure to hydrogen sulfide at concentrations above 4 ppm may cause eye irritation.

Potential Health Effects: Ingestion

Direct contact with heated material can produce thermal burns on contacted tissues. Gastric masses and stomach obstructions have been reported in individuals who have chewed and swallowed asphalt.

Safety Data Sheet

Material Name: Hot Mix Asphalt, Bituminous Concrete (Blacktop)

Potential Health Effects: Inhalation

Emissions from heated petroleum asphalt may have an unpleasant odor, and may produce nausea and irritation of the upper respiratory tract. Naphtha component vapors (hot asphalt) at high concentrations in enclosed spaces may cause symptoms of euphoria, respiratory irritation and edema, headaches, dizziness, drowsiness, concussions, coma, cyanosis and generalized depression. Hydrogen sulfide causes respiratory irritation at concentrations of 4 to 100 ppm. At low concentration H₂S has a rotten egg odor. At elevated concentrations H₂S acts as a systemic poison, causing unconsciousness and death by respiratory paralysis. Chronic inhalation of petroleum asphalt emissions may contribute to respiratory irritation. If hardened asphalt concrete is subjected to mechanical forces which generate dust particles, exposure to respirable crystalline silica dust is possible.

Respiratory Organs Sensitization/ Skin Sensitization

Chronic exposure to petroleum asphalt has caused skin disorders such as dermatitis, folliculitis, or oil acne.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A. General Product Information

May cause cancer.

Petroleum asphalt and the asphalt additives in this product are not listed as a carcinogen by NTP, OSHA, or IARC. Crystalline silica, a component of this product, is listed by IRAC but not by OSHA. IRAC has determined that there is sufficient evidence for carcinogenicity to experimental animals exposed to crystalline silica and limited evidence for carcinogenicity to humans. "Limited evidence" means that a causal relationship is possible; however, other explanations such as chance, bias or confounding factors cannot adequately be excluded. NTP has listed crystalline silica as reasonably anticipated to be a human carcinogen.

B. Component Carcinogenicity

Quartz (14808-60-7)

ACGIH:	A2 – Suspected Human Carcinogen
NIOSH:	potential occupational carcinogen
NTP:	Known Human Carcinogen (respirable size) (Select Carcinogen)
IARC:	Monograph 100C [2012] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997] Group 1 (carcinogenic to humans)).

Reproductive Toxicity

This product may contain components which may cause adverse reproductive and/or development effects.

Specified Target Organ General Toxicity: Single Exposure

Acute overexposure to this material or its components may cause systemic toxicity, including adverse effects to the following: liver, kidney, lung, skin, spleen, thymus, blood elements, lymph nodes, testes, bone marrow, and nervous system.

Specified Target Organ General Toxicity: Repeated Exposure

Chronic overexposure to this material or its components may cause systemic toxicity, including adverse effects to the following: liver, kidney, lung, skin, spleen, thymus, blood elements, lymph nodes, testes, bone marrow, and nervous system.

Aspiration Respiratory Organs Hazard

This product is not reported to have any aspiration hazard effects.

Safety Data Sheet

Material Name: Hot Mix Asphalt, Bituminous Concrete (Blacktop)

Other Toxicological Information

Exposure to components of this material may cause the following specific symptoms, depending on the concentration and duration of exposure: anemia, pallor, fatigue, loss of appetite, anxiety, and melanosis. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system. Intentional misuse by deliberately inhaling vapors may be harmful or fatal.

Section 12 – Ecological Information

Ecotoxicity

A. General Product Information

Harmful to aquatic life with long lasting effects. This material may be toxic to fish and other aquatic life and may impede growth of vegetation.

B. Component Analysis – Ecotoxicity – Aquatic Toxicity

No ecotoxicity data are available for this products components.

Persistence/Degradability

No information available for this product.

Bioaccumulation

No information available for this product.

Mobility in Soil

No information available for this product.

Section 13 – Disposal Considerations

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers of Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 – Transportation Information

DOT Information

Shipping Name: Hot Mix Asphalt

Additional Info.: If the shipping temperature of a solid equals or exceeds 464 F, DOT regulations classify the solid as an “Elevated Temperature Material,” and a “Hot” label is required. Transportation in accordance with local regulations, where applicable. Consult 49 CFR 172.101 for shipping information.

Section 15 – Regulatory Information

Regulatory Information

US Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Safety Data Sheet

Material Name: Hot Mix Asphalt, Bituminous Concrete (Blacktop)

State Regulations

Component Analysis – State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	MA	MN	NJ	PA	RI
Quartz	14808-60-7	No	Yes	Yes	Yes	Yes	No

Component Analysis – WHMIS IDL

Component	CAS #	Minimum Concentration
Quartz	14808-60-7	1%

Additional Regulatory Information

Component Analysis – Inventory

Component	CAS #	TSCA	CAN	EEC
Quartz	14808-60-7	Yes	DSL	EINECS

Section 16 – Other Information

Hazardous Material Information System (HMIS):	Health	2
	Flammability	1
	Physical Hazard	
	Personal Protection	B

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

Protective Equipment: Safety glasses, gloves, respirator

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Safety Data Sheet

Material Name: Hot Mix Asphalt, Bituminous Concrete (Blacktop)

Literature References

None

Other Information

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY PECKHAM, except that the product shall conform to contracted specifications. The information provided herein was believed by Peckham Industries to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for nondelivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

End of Sheet