



Between the World  
and The Weather  
Since 1928

## Safety Data Sheet

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### 1: IDENTIFICATION AND EMERGENCY INFORMATION

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**PRODUCT NAME:** BLACK PEARL WATERPROOFING MEMBRANE (SHEET)

**Manufacturer's Name:** Barrett Company, Inc.  
33 Stone House Road  
Millington, New Jersey 07946

**CHEMTREC EMERGENCY PHONE:** 800-424-9300  
**INFORMATION PHONE:** 800-647-0100  
**DATE PREPARED:** February 2015

**Recommended Use:** Waterproofing membrane sheet.

**Restrictions on Use:** For use only and exclusively by trained commercial waterproofing and roofer contractors.

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### 2: HAZARDS IDENTIFICATION

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**Emergency Overview:** Under United States Regulations (29 CFR 1900.1200 – OSHA Hazard Communication Standard) the products listed above are exempt as articles under normal conditions of use. In Canada, these products are considered manufactured articles under the Workplace Hazardous Materials Information System (WHMIS) and are exempt. Under normal conditions of use the products listed in this SDS are not expected to pose a physical hazard or health risk to humans. These products do not contain any form of asbestos materials. The component exposure limits and other information in this document are provided for abnormal or emergency circumstances such as heating (above 250° F), burning, cutting, sanding and/or grinding when there is a potential for exposure to these components.

#### **Potential Health Effects**

##### **Inhalation:**

Inhalation of vapors, fumes or mists of the products in abnormal or emergency circumstances may be irritating to the respiratory system. See Section 8 for exposure controls.

##### **Skin Contact:**

Prolonged or repeated contact may cause dryness and irritation of the skin. Long-term skin exposure to asphalt can increase sensitivity to the sun, and may cause discoloration.

##### **Eye Contact:**

Fumes created when certain liquid adhesives are used to apply, repair or maintain these products may cause severe irritation, redness or blurred vision. Contact with adhesive may cause severe eye damage.

##### **Ingestion:**

These products may be harmful or fatal if swallowed. They may cause dizziness, incoordination, headache, nausea and vomiting. Small amounts of these products, if aspirated into the lungs, may cause mild to severe pulmonary injury or death.

##### **Chronic Effects in Abnormal or Emergency Circumstances:**

Occupational exposures to asphalt and oxidized asphalt which may occur from these products during abnormal conditions of use or emergencies, have been found to be a possible human carcinogen, and may cause serious irreversible lung disease and other non-cancerous effects. See Section 11 of this SDS.

##### **Medical Conditions Aggravated by Exposure:**

Chronic respiratory or skin conditions may temporarily worsen from exposure to emissions from these products in abnormal or emergency conditions.

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**3: COMPOSITION AND INFORMATION ON INGREDIENTS**

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CAS#	COMPONENT	% WEIGHT
N/A	Polyester Mat	5-10
8052-42-4	Petroleum Asphalt	0-60
142-77-8	Butyl Oleate	1-3
N/A	SBS Polymer	6-15
65997-17-3	Fiberglass	0-2
1317-65-3	Calcium Carbonate (encapsulated)	0-35
9003-07-0	Polypropylene	0-10

\*These products contain trace amounts of polynuclear aromatic compounds, some of which are listed as hazardous under various Federal, State and international laws and regulations.

**Component Related Regulatory Information**

Emissions from these products in abnormal or emergency circumstances may be regulated, have exposure limits or other information identified as the following: Asphalt (8052-42-4), nuisance particulates.

**Note:** See Section 8 of SDS for exposure limit data for these ingredients.

**Appearance and Odor:** A fine mineral surface membrane with a slight petroleum odor

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**4: FIRST AID MEASURES**

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**Inhalation:**

Move person to fresh air. Administer cardiac or pulmonary resuscitation (CPR) if a pulse is not detectable or if unable to breathe. Provide oxygen if breathing is difficult. Obtain immediate medical assistance.

**Skin Contact:**

For contact with cold material, clean exposed skin with waterless hand cleaner, then wash with mild soap and water. If irritation persists, seek medical attention.

**Eye Contact:**

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

**Ingestion:**

DO NOT induce vomiting. Prevent aspiration of material into lungs. Seek immediate medical attention.

**Notes to Physician:**

This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

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**5: FIRE FIGHTING MEASURES**

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**Flash Point:** >535°F (279°C)

**Flash Point Method:** C.O.C.

**Upper Flammability Limit:** Not available

**Lower Flammability Limit:** Not available

**Rate of Burning:** Not available

**Flammability Classification:** Combustible

**Auto Ignition Temperature:** >650°F (343°C)

**Extinguishing Media:**

Use dry chemical, foam and carbon dioxide. Use water to cool fire-exposed containers and to protect personnel.

**Unusual Fire & Explosion Hazards:**

Treat as hydrocarbon type fire. Hot asphalt may ignite flammable materials on contact. DO NOT direct water into a container or directly onto hot asphalt, a vessel or a storage tank containing asphalt as it may cause violent eruptions and spreading of hot asphalt.

**Fire-Fighting Instructions:**

Use self-contained breathing apparatus (SCBA) and full bunker turnout gear in a sustained fire. Wear protective clothing ensemble as defined in NFPA 1500 (1997, or as updated).

**Hazardous Combustion Products:**

Primary combustion products are carbon monoxide, carbon dioxide and water. Combustion products may include sulfur oxides and hydrogen sulfide. Other undetermined compounds could be released in small quantities.

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**6: ACCIDENTAL RELEASE MEASURES**

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**Containment Procedures:**

Contain spills with an inert absorbent material such as soil, sand or oil dry.

These materials will settle out of the air. They can then be scooped up or vacuumed for disposal as a non-hazardous waste. These materials will sink and disperse along the bottom of waterways and ponds. They cannot easily be removed after becoming waterborne however, they are considered non-hazardous in water.

**Clean-Up Procedures:**

Solidify with inert absorbent materials such as sand or oil dry, pick up and put into suitable container for disposal. Check with local authorities for approval to dispose of this material.

**Response Procedures:**

Isolate area. Keep unnecessary personnel away.

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**7: HANDLING AND STORAGE**

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**Handling Procedures:**

Do not get these materials in your eyes or on your skin and minimize exposure to fumes from heated material. Wash exposed areas thoroughly after handling these products. Keep these products from sparks or open flame. Use these products with adequate ventilation.

Hydrogen sulfide may be emitted from burning asphalt. Prolonged breathing (greater than 1 hour) of concentrations of hydrogen sulfide around 50 ppm can produce eye and respiratory tract (mouth, nose and throat) irritation and at high concentrations (around 300 ppm) is considered immediately dangerous to life and health.

Since the sense of smell becomes rapidly insensitive to hydrogen sulfide, its odor cannot be relied upon as an indicator of its concentration. Use ventilation or work upwind from source of fumes or vapors. Use supplied air respirators or self-contained breathing apparatus if the PEL or TLV for hydrogen sulfide (10 ppm, 8hr TWA) is exceeded.

**Storage Procedures:**

Store away from heat and all ignition sources and open flames in accordance with applicable laws and regulations.

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**8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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**Exposure Guidelines:****A: General Product Information**

Follow all applicable exposure limits.

**B: Component Exposure Limits**

ACGIH, OSHA and NIOSH exposure limit lists have been checked for those components with CAS registry numbers listed in Section 2 of this SDS.

**Petroleum asphalt (8052-42-4)**

ACGIH: 0.5 mg/m<sup>3</sup> TLV-TWA, benzene-extractable, inhalable particulate (or equivalent method)

OSHA: Total dust: 15mg/m<sup>3</sup> PEL-TWA; respirable fraction: 5 mg/m<sup>3</sup> PEL-TWA (related to particulates not otherwise regulated, PNOR)

NIOSH: 5mg/m<sup>3</sup> Recommended Exposure Limit (REL), measured as a 15 minute ceiling (fumes)

**Ventilation:**

Provide sufficient local and/or general exhaust ventilation to maintain exposure levels below the PELs or TLVs in abnormal or emergency circumstances.

## PERSONAL PROTECTIVE EQUIPMENT

### Respiratory Protection:

If ventilation is not sufficient to control exposures below TLV or PEL, use an appropriate properly fitted NIOSH approved respirator. If irritation occurs or if the PEL or TLV for asphalt fume is exceeded, use any half-face piece, air purifying respirator equipped with a combination R100 or P100 filter and an organic vapor (OV) cartridge.

Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

### Skin Protection:

A loose fitting, long sleeved cotton shirt and long cotton pants are recommended. Leather or lined neoprene coated gloves should be worn when working with asphalt materials.

### Eyes/Face Protective Equipment:

Wear safety glasses or goggles. Also wear a face shield where splash hazard exists.

### Work Practices:

Handle with good industrial hygiene and safety practices. These include avoiding any unnecessary exposure and removal of the material from the skin, eyes and clothing. Wash hands and arms frequently, shower after exposure and wash work clothes when soiled.

In case of exposure to or contact with asphalt, see Section 4.

These products may be applied, repaired or maintained using liquid asphaltic adhesive and these operations may result in worker exposures to asphalt fumes or emissions via inhalation or dermal absorption. Although there is no evidence that the fumes and emissions that occur in these operations emanate from these products, roofing contractors and workers using liquid asphaltic materials in the application, repair or maintenance of these products should adhere to the equipment and work practice recommendations published by NIOSH. See DHHS (NIOSH) Publication No. 2003-107, entitled "Reducing Roofers' Exposure to Asphalt Fumes". The publication is available on NIOSH's website at: <http://www.cdc.gov/niosh/docs/2003-107>

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## 9: PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Fibrous membrane

**Physical State:** Solid

**Vapor Pressure (mm Hg @ 20°C):** 3 mm Hg @ 20°C

**Boiling Point:** >1,000°F (>538°C)

**Specific Gravity (Water=1):** 1.08>1.11

**Viscosity:** Solid at room Temperature

**Melting Point:** Not Applicable

**Odor:** Petroleum

**pH:** Not applicable

**Vapor Density (Air=1):** Not applicable

**Solubility (H<sub>2</sub>O):** Insoluble

**Freezing Point:** Not available

**Percent Volatile:** 0%

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## 10: STABILITY AND REACTIVITY

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### Stability:

This is a stable material.

### Conditions to avoid:

Do not allow asphaltic adhesive to contact water as this may cause adverse dispersion.

### Incompatible Materials:

These products may react with strong oxidizing agents and water.

### Hazardous Decomposition Products:

Primary combustion products are carbon monoxide, carbon dioxide and water. Combustion products may include sulfur oxides and hydrogen sulfide.

### Hazardous Polymerization:

Will not occur.

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**11:****TOXICOLOGICAL INFORMATION**

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**Acute and Chronic Toxicity:****A: General Product Information**

Long-term skin exposure to asphaltic compounds can increase sensitivity to the sun and cause discoloration. If ingested, they may cause mouth, throat and gastrointestinal tract irritation and upset with possible nausea, vomiting and diarrhea. Small amounts of these products, if aspirated into the lungs, may cause mild to severe injury. See Section 8 for exposure controls.

**LD50/LC50 for Chemicals, Which May Be Released During Use**

Hydrogen sulfide (7783-06-4)

Inhalation LC50 Rat: 444 ppm

Inhalation LC50 Mouse: 634 ppm/1H

**B: Component Analysis – LD50/LC50**

No LD50/LC50's are available for the components of these products.

**Carcinogenicity:****A: General Information****B: Component Carcinogenicity**

ACGIH, IARC, OSHA and NTP carcinogen lists were checked for those components with CAS registry numbers.

**Petroleum asphalt (8052-42-4)**

ACGIH: A4 – Not Classifiable as a Human Carcinogen (related to Asphalt fumes)

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**12:****ECOLOGICAL INFORMATION**

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**Ecotoxicity:**

No data available for these products. These products are not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

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**13:****DISPOSAL CONSIDERATIONS**

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**US EPA Waste Number & Descriptions:****A: General Product Information**

Material, if discarded, is not a characteristic hazardous waste under RCRA.

**B: Component Waste Numbers**

No EPA Waste Numbers are applicable for the components of these products.

**Disposal Instructions:**

Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

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**14:****TRANSPORT INFORMATION**

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**US DOT Information (Cold product)**

**Shipping Name:** Not regulated as hazardous material for transportation.

**TDG Information**

**Shipping Name:** Not regulated as hazardous material for transportation.

**Additional Transportation Regulations:**

No additional information available.

**US Federal Regulations:****A: General Product Information**

OSHA status: These products are considered articles not subject to 29CFR 1910.1200 (OSHA Hazard Communication Standard).

These products contain trace amounts of polynuclear aromatic compounds, some of which are listed as hazardous under various Federal, State, and international laws and regulations.

**B: Component Analysis**

These materials contain trace amounts of formaldehyde and polycyclic aromatic compounds (PACs) listed under SARA 313.

**SARA 311/312**

**Acute Health Hazard: Yes Chronic  
Health Hazard: Yes Fire Hazard: No  
Sudden Release of Pressure Hazard: No  
Reactive Hazard: No**

**State Regulations:****A: General Product Information**

No additional information available.

**B: Component Analysis – State**

The following components listed in Section B of this SDS appear on one or more state hazardous substance lists:

Component	CAS number
Petroleum asphalt	8052-42-4

These products contain trace amounts of polynuclear aromatic compounds, some of which are listed as hazardous under various State laws and regulations.

The following statement is provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! These products contain chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

**Other Regulations:****A: General Product Information**

All components identified in Section 3 of this SDS are either listed on the US EPA TSCA Inventory, or are exempt from listing.

**B: Component Analysis – Inventory**

Component	CAS Number	TSCA	DSL	EINECS
Petroleum asphalt	8052-42-4	Yes	Yes	Yes

**C: Component Analysis – WHMIS WHMIS**

**Status:** Not Controlled WHMIS

**Classification:** None

**HMIS and NFPA Hazard Ratings:**

Category	HMIS	NFPA
Health	1	1
Flammability	1	1
Reactivity	0	0

**NFPA Unusual Hazards:** No water

**HMIS personal Protection:** To be supplied by user depending upon use.

**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; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act; DSL = Canadian Domestic Substance

List; EINECS = European Inventory of New and Existing Chemical Substances; WHMIS = Workplace Hazardous Materials Information System; CAA = Clean Air Act

**Revision Summary:**

This is a revised SDS, which replaces (revision 04/2010) with updated contact and regulatory and product information. Read this information carefully.

**Disclaimer:**

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