SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form: Mixture
Product name: BOND-X High Performance Cold Patch
Product code: PP-1 / PP-60

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Asphalt cold mix

1.3. Details of the supplier of the safety data sheet
Seaboard Asphalt Products Co.
3601 Fairfield Road
Baltimore, MD 21226
1-800-563-0332

1.4. Emergency telephone number
Emergency number: CHEMTREC 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (GHS-US)
- Flam. Liq. 4 H227
- Mut. 1B H340
- Carc. 1B H350

2.2. Label elements
GHS-US labeling
Hazard pictograms (GHS-US): [Image]
Signal word (GHS-US): Danger
Hazard statements (GHS-US):
- H227 - Combustible liquid
- H340 - May cause genetic defects
- H350 - May cause cancer
Precautionary statements (GHS-US):
- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P280 - Wear protective equipment
- P308 + P313 - If exposed or concerned: Get medical advice/attention
- P403+P235 - Store in a well-ventilated place. Keep cool

2.3. Other hazards
Other hazards not contributing to the classification: Vapors and gases from heated asphalt may contain hydrogen sulfide and may be irritating to the eyes and skin. Skin contact with asphalt may cause skin irritation and allergic reactions in some individuals. Hot material may cause burns.

2.4. Unknown acute toxicity (GHS-US)
None of the ingredients in the mixture are of unknown toxicity

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable – product is a mixture
BOND-X High Performance Cold Patch

PP-1 / PP-60

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>(CAS No) 8052-42-4</td>
<td>&lt; 20*</td>
<td>Carc. 2, H351</td>
</tr>
<tr>
<td>Solvent naphtha, petroleum, light aromatic</td>
<td>(CAS No) 64742-95-6</td>
<td>&lt; 1*</td>
<td>Flam. Liq. 3, H226, Muta. 1B, H340, Carc. 1B, H350, Asp. Tox. 1, H304</td>
</tr>
</tbody>
</table>

*The exact percentages have been withheld as a trade secret

### SECTION 4: First aid measures

**4.1. Description of first aid measures**

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the product label where possible).

First-aid measures after inhalation: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and seek medical attention. No attempt should be made to remove material from skin.

First-aid measures after skin contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after eye contact: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries: May cause genetic defects. May cause cancer.

**4.3. Indication of any immediate medical attention and special treatment needed**

No additional information available

### SECTION 5: Firefighting measures

**5.1. Extinguishing media**


Unsuitable extinguishing media: Do not use a heavy water stream.

**5.2. Special hazards arising from the substance or mixture**

Fire hazard: Combustible liquid.

Explosion hazard: May form flammable/explosive vapor-air mixture.

**5.3. Advice for firefighters**

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Contain all water used for fire-fighting to the greatest extent possible.

Protection during firefighting: Do not enter fire area without proper protective equipment, including NIOSH approved positive-pressure breathing apparatus with full face mask and full protective equipment.

### SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

General measures: Remove ignition sources. Use special care to avoid static electric charges. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

**6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

**6.4. Reference to other sections**

See Heading 8. Exposure controls and personal protection.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from oxidizers, excessive heat, and open flame. Keep container closed when not in use. Do not freeze. Keep in fireproof place.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th></th>
<th>USA ACGIH</th>
<th>USA OSHA</th>
<th>USA OSHA</th>
<th>USA ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt (8052-42-4)</td>
<td>ACGIH TWA (mg/m³)</td>
<td>OSHA PEL (ppm)</td>
<td>OSHA STEL (ppm)</td>
<td>OSHA Ceiling (ppm)</td>
</tr>
<tr>
<td>Hydrogen Sulfide (7783-06-4) may be released from this product</td>
<td>0.5 mg/m³ Inhalable fraction</td>
<td>10 ppm</td>
<td>15 ppm</td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Ensure that proper ventilation is provided to maintain exposures below regulated limits.

Personal protective equipment: Avoid all unnecessary exposure. At a minimum wear long sleeved cotton shirt buttoned at the collar and full length cotton pants. Synthetic fibers can melt and adhere to the skin when heated. Do not fold back or roll up cuffs.

Hand protection: Wear protective gloves that protect against thermal burns when handling hot material.

Eye protection: Chemical goggles or safety glasses.

Respiratory protection: Not typically required. In cases where exposures exceed occupational control limits, a NIOSH approved respirator is recommended.

Other information: Do not eat, drink or smoke during use. Wash hands and other exposed areas after use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Odor</td>
<td>Organic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>70 °C</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
BOND-X High Performance Cold Patch
PP-1 / PP-60
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Explosion limits
No data available

### Explosive properties
No data available

### Oxidizing properties
No data available

### Vapor pressure
No data available

### Relative density
No data available

### Relative vapor density at 20 °C
No data available

### Solubility
No data available

### Log Pow
No data available

### Log Kow
No data available

### Auto-ignition temperature
No data available

### Decomposition temperature
No data available

### Viscosity
No data available

### Viscosity, kinematic
No data available

### Viscosity, dynamic
No data available

### 9.2. Other information
No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
No additional information available

#### 10.2. Chemical stability
Combustible liquid. May form flammable/explosive vapor-air mixture.

#### 10.3. Possibility of hazardous reactions
Not established.

#### 10.4. Conditions to avoid

#### 10.5. Incompatible materials
Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products
Hydrogen sulfide and other toxic vapors may be given off when heated excessively. Carbon monoxide. Carbon dioxide. May release flammable gases.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Likely routes of exposure</th>
<th>Acute toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin and eye contact; Inhalation</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**Asphalt (8052-42-4)**

- LD50 oral rat: > 5000 mg/kg
- LD50 dermal rabbit: > 2000 mg/kg

**Solvent naphtha, petroleum, light aromatic (64742-95-6)**

- LD50 oral rat: 2900 - 3200 mg/kg
- LD50 dermal rabbit: > 2000 mg/kg
- LC50 inhalation rat (ppm): 3400 ppm/4h
- ATE US (oral): 2900.000 mg/kg body weight
- ATE US (gases): 3400.000 ppmV/4h

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>May cause genetic defects.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>May cause cancer.</td>
</tr>
</tbody>
</table>

**Asphalt (8052-42-4)**

- IARC group: 2B - Possibly carcinogenic to humans
- National Toxicology Program (NTP) Status: 5 - Twelfth Report - Items under consideration
Asphalt (8052-42-4)  
In OSHA Hazard Communication Carcinogen list: Yes

Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified
Potential Adverse human health effects and symptoms: Vapors and gases from heated asphalt may contain hydrogen sulfide and may cause eye, skin and respiratory tract irritation, headache and nausea. Ingestion or contact of hot material may cause burns on eyes, skin or gastrointestinal system. Asphalt may cause skin irritation with reddening, itching, burning and/or swelling and may cause allergic skin reaction in some individuals.

SECTION 12: Ecological information

12.1. Toxicity
Solvent naphtha, petroleum, light aromatic (64742-95-6)  
LC50 fish 1: 9.22 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1: 6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability
BOND-X High Performance Cold Patch / PP-1 / PP-60  
Persistence and degradability: Not established.
Asphalt (8052-42-4)  
Persistence and degradability: Not established.
Solvent naphtha, petroleum, light aromatic (64742-95-6)  
Persistence and degradability: Not established.

12.3. Bioaccumulative potential
BOND-X High Performance Cold Patch / PP-1 / PP-60  
Bioaccumulative potential: Not established.
Asphalt (8052-42-4)  
BCF fish 1: (no bioaccumulation expected)
Log Pow: > 6
Bioaccumulative potential: Not established.
Solvent naphtha, petroleum, light aromatic (64742-95-6)  
Bioaccumulative potential: Not established.

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Other information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local, state, and federal regulations.
Additional information: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)  
In accordance with DOT
No additional information available
### Additional information

**ADR**
No additional information available

**Transport by sea**
No additional information available

**Air transport**
No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

**BOND-X High Performance Cold Patch / PP-1 / PP-60**

<table>
<thead>
<tr>
<th>SARA Section 311/312 Hazard Classes</th>
<th>Fire hazard</th>
<th>Immediate (acute) health hazard</th>
<th>Delayed (chronic) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Asphalt (8052-42-4)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Solvent naphtha, petroleum, light aromatic (64742-95-6)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 15.2. International regulations

**CANADA**

- **Asphalt (8052-42-4)**
  - Listed on the Canadian DSL (Domestic Substances List)

- **Solvent naphtha, petroleum, light aromatic (64742-95-6)**
  - Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations**

- **Asphalt (8052-42-4)**
  - Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

- **Solvent naphtha, petroleum, light aromatic (64742-95-6)**
  - Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**
No additional information available

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**
No additional information available

#### National regulations

- **Asphalt (8052-42-4)**
  - Listed on the AICS (Australian Inventory of Chemical Substances)
  - Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
  - Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
  - Listed on the Korean ECL (Existing Chemicals List)
  - Listed on NZIoC (New Zealand Inventory of Chemicals)
  - Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

- **Solvent naphtha, petroleum, light aromatic (64742-95-6)**
  - Listed on the AICS (Australian Inventory of Chemical Substances)
  - Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
  - Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
  - Listed on the Korean ECL (Existing Chemicals List)
  - Listed on NZIoC (New Zealand Inventory of Chemicals)
  - Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### 15.3. US State regulations

**California - Proposition 65**

WARNING: This product contains chemicals known to the State of California to cause cancer.
SECTION 16: Other information

Other information: None.

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard Category 1</td>
</tr>
<tr>
<td>Carc. 1B</td>
<td>Carcinogenicity Category 1B</td>
</tr>
<tr>
<td>Carc. 2</td>
<td>Carcinogenicity Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids Category 3</td>
</tr>
<tr>
<td>Flam. Liq. 4</td>
<td>Flammable liquids Category 4</td>
</tr>
<tr>
<td>Muta. 1B</td>
<td>Germ cell mutagenicity Category 1B</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapor</td>
</tr>
<tr>
<td>H227</td>
<td>Combustible liquid</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H340</td>
<td>May cause genetic defects</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.