Safety Data Sheet

1. Identification

Product Name: Black Seal Rubberized Roof Coating

Company: United Asphalt Company
237 North Grove Street
Berlin New Jersey 08009

Phone: 800-843-0317

Emergency Telephone Number:
Chemtrec: 800-424-9300

2. Hazards Identification

Product may cause respiratory irritation, headache, dizziness, nausea and vomiting. Prolonged or repeated contact with skin may cause dermatitis.

GHS Ratings:

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquid</td>
<td>3</td>
<td>Flash point &gt;= 23°C and &lt;= 60°C (140°F)</td>
</tr>
<tr>
<td>Skin corrosive</td>
<td>2</td>
<td>Reversible adverse effects in dermal tissue, Draize score: &gt;= 2.3 &lt; 4.0 or persistent inflammation</td>
</tr>
<tr>
<td>Eye corrosive</td>
<td>2B</td>
<td>Mild eye irritant: Subcategory 2B, Reversible in 7 days</td>
</tr>
<tr>
<td>Carcinogen</td>
<td>2</td>
<td>Limited evidence of human or animal carcinogenicity</td>
</tr>
</tbody>
</table>

GHS Hazards

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H226</td>
<td>Flammable liquid and vapour</td>
</tr>
<tr>
<td>H315+H320</td>
<td>Causes skin and eye irritation</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
</tr>
</tbody>
</table>

GHS Precautions

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P201</td>
<td>Obtain special instructions before use</td>
</tr>
<tr>
<td>P202</td>
<td>Do not handle until all safety precautions have been read and understood</td>
</tr>
<tr>
<td>P210</td>
<td>Keep away from heat/sparks/open flames/hot surfaces – No smoking</td>
</tr>
<tr>
<td>P233</td>
<td>Keep container tightly closed</td>
</tr>
<tr>
<td>P240</td>
<td>Ground/bond container and receiving equipment</td>
</tr>
<tr>
<td>P241</td>
<td>Use explosion-proof electrical/ventilating/light/…/equipment</td>
</tr>
<tr>
<td>P242</td>
<td>Use only non-sparkng tools</td>
</tr>
<tr>
<td>P243</td>
<td>Take precautionary measures against static discharge</td>
</tr>
</tbody>
</table>
Signal Word: Warning

Acute toxicity: Not classified

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>50.00% - 60.00%</td>
</tr>
<tr>
<td>Aliphatic Petroleum Distillates</td>
<td>8052-41-3</td>
<td>20.00% - 30.00%</td>
</tr>
<tr>
<td>Hydrated Magnesium Aluminum Silicate</td>
<td>8031-18-3</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Cellulose Fiber</td>
<td>9004-34-6</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>SBS Blend for Cements</td>
<td>SBS Mixture</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Cationic Salt</td>
<td>28701-67-9</td>
<td>1.00% - 5.00%</td>
</tr>
</tbody>
</table>

4. First Aide Measures

If respiratory discomfort occurs, remove to fresh air. If discomfort continues, administer oxygen and get medical attention.

If this product comes in contact with eyes, flush eyes with plenty of water for at least 15 minutes and seek medical help.

If this product comes in contact with skin, remove material with mineral oil, then wash with soap and plenty of water.

If swallowed, do not induce vomiting. Get medical attention. Treat symptomatically.
5. Fire-Fighting Measures

Suitable Extinguishing Media:
Use dry chemical, CO2, water spray (FOG) or foam.

Unsuitable Extinguishing Media:
Avoid solid water stream as it may scatter and spread fire.

When heated above flash point, material will release flammable vapors which can burn or be explosive in confined spaces if ignited. Do not mix with strong oxidants such as liquid chlorine or concentrated oxygen.

Elevated temperatures can lead to the formation of irritating vapors. Decomposing products may include the following materials: Carbon dioxide and Carbon monoxide.

Minimize breathing vapors, gases or fumes of decomposition products.
Do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

6. Accidental Release Measures

Eliminate Sources of ignition and ventilate the area. Add sand or earth or absorb spill with suitable absorbent material and place in a closed container.

Keep products out of sewers and waterways by diking or impounding. Advice authorities if product has entered or may enter sewers or waterways. Assure conformity with applicable governmental regulations.

7. Handling and Storage

Vapors are heavier than air and may travel along the ground or be moved by ventilation to locations distant from the point of material handling. To prevent fumes from entering buildings or confined areas, close all air intake sources near the material handling or the work area. To prevent ignition, avoid smoking, keep away from heat, open flames and sources of static or electrical sparking. Use explosion proof motors and equipment. Tank trucks or other containers should be grounded and/or bonded when the material is transferred.

Avoid prolonged or repeated inhalation of vapors or spray mists. Avoid prolonged or repeated skin contact. Adhere to good hygienic practices. Avoid open flames. Use with adequate ventilation.

Store in a cool, dry place, out of direct sunlight and away from heat, sparks, and flame.

Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.
8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name / CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt 8052-42-4</td>
<td>Not Established</td>
<td>0.5 mg/m3</td>
<td>Not Established</td>
</tr>
<tr>
<td>Aliphatic Petroleum Distillates 8052-41-3</td>
<td>TWA: 500 ppm</td>
<td>TWA: 100 ppm</td>
<td>Not Established</td>
</tr>
<tr>
<td>Hydrated Magnesium Aluminum Silicate 8031-18-3</td>
<td>NONE</td>
<td>NONE</td>
<td>Not Established</td>
</tr>
<tr>
<td>Cellulose Fiber 9004-34-6</td>
<td>PEL-TWA 15mg/m3 Total PEL-TWA 5mg/m3 Respirable</td>
<td>TLV-TWA 10 mg/m3</td>
<td>Not Established</td>
</tr>
<tr>
<td>SBS Blend for Cements SBS Mixture</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Cationic Salt 28701-67-9</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
</tbody>
</table>

Local Exhaust: In enclosed areas. Special: None
Mechanical: In confined areas. Other: None

Respiratory Protection: Use supplied-air respirator in confined areas or with vapors in high concentrations.
Eye Protection: Safety glasses or face shield for liquid material.
Protective Gloves: Solvent impervious gloves.
Other Protective Clothing Equipment: Long sleeves and impervious clothing to protect against splashing.

9. Physical and Chemical Properties

Appearance and Odor: Dark liquid. Mild petroleum odor
Vapor Pressure: 3
Boiling Range: 300-350°F
Melting Point (R & B): N/A
Solubility in water: Insoluble.
Specific Gravity (H2O=1): 1.0 - 1.05
Evaporation Rate (Butyl Acetate=1)@ 77°F: 0.2
Vapor Density (Air = 1): >4
Flash Point (PMCC): 104°F min.

10. Stability and Reactivity

Conditions to Avoid: Keep away from heat, spark, open flames.

Incompatibility (Materials to Avoid): May react with strong oxidizing materials
Hazardous Decomposition Products:
Combustion: carbon dioxide (CO2), carbon monoxide (CO), nitrogen oxides, smoke, and fumes.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Mixture Toxicity
Component Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>5,000 mg/kg (Rat)</td>
<td>2,000 mg/kg (Rabbit)</td>
<td>94 mg/m3 (Rat)</td>
</tr>
<tr>
<td>Aliphatic Petroleum Distillates</td>
<td>5 g/kg (Rat)</td>
<td>3 g/kg (Rabbit)</td>
<td>18 g/m3 (Rat)</td>
</tr>
</tbody>
</table>

Effects of Overexposure

Carcinogenicity: NTP:? Yes   IARC Monographs?: Yes   OSHA Regulated?: Yes

This product may contain trace amounts of crystalline silica, which is considered a hazard by inhalation that can cause silicosis. Petroleum asphalt may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm. Coal tar pitch volatiles, soots, tars and oils are listed as a carcinogenic category by OSHA, ACGIH, the National Toxicological Program (NTP) and the international Agency for Research on Cancer (IARC). Prolonged or repeated contact may lead to dermatitis; and with poor hygienic practices, to more serious skin disorders such as ulcerations, benign skin growths and skin cancer.

12. Ecological Information.

Ecotoxicity: This product should be considered toxic to aquatic organisms. Avoid release to the environment.

13. Disposal Considerations

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

14. Transportation Information

This material is classified for transport as follows:

<table>
<thead>
<tr>
<th>Agency</th>
<th>Proper Shipping Name</th>
<th>UN Number</th>
<th>Packing Group</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Asphalt Cements and Coatings Non-Bulk</td>
<td>1993</td>
<td>3</td>
<td>III</td>
</tr>
</tbody>
</table>
15. Regulatory Information

**TSCA CERTIFICATION**
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**EMERGENCY PLANNING & COMMUNITY RIGHT-TO-KNOW (SARA TITLE 3)**
All chemicals in this product are listed, or are exempt from listing, on the SARA TITLE 3 Inventory.

**CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986)**
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**CANADIAN REGULATIONS**
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

**Hazardous Material Information System (HMIS)**
- **HEALTH**: 2
- **FLAMMABILITY**: 2
- **PHYSICAL HAZARD**: 0
- **PERSONAL PROTECTION**: 

**HMIS & NFPA Hazard Rating Legend**
- * = Chronic Health Hazard
- 0 = INSIGNIFICANT
- 1 = SLIGHT
- 2 = MODERATE
- 3 = HIGH

**National Fire Protection Association (NFPA)**
- Flammability: 
- Health: 2
- Instability: 
- Special: 

---

Page 6 of 7
Revision Statement:
Supersedes:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The information has been completed to the best of our knowledge and is believed to be accurate and reliable as from the date indicated. However, no warranty is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy oneself as to the suitability and completeness of such information for his own particular use.