1 - Identification

Product Name: Modified Aluminum Mastic
Product Code: # 232
Trade Name: Del-Val "Delivering Value"

Company: United Asphalt Company
P.O. Box 291
Cedar Brook, NJ 08018

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>Rating</th>
<th>Code</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>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>H316</td>
<td>Causes mild skin irritation</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-sparking tools</td>
</tr>
<tr>
<td>P243</td>
<td>Take precautionary measures against static discharge</td>
</tr>
</tbody>
</table>
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>Aromatic Petroleum Distillates</td>
<td>64742-95-6</td>
<td>40.00% - 50.00%</td>
</tr>
<tr>
<td>Aluminum Paste</td>
<td>7429-90-5</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Aliphatic Petroleum Distillates</td>
<td>8052-41-3</td>
<td>5.00% - 10.00%</td>
</tr>
<tr>
<td>SBS Blend</td>
<td>SBS Mixture</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

Flash Point: 40 C (104 F)
LEL: 1.00  UEL: 7.00

Suitable Extinguishing Media:
Use dry chemical, CO2, water spry(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.

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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. Advicce authorities if product has entered or may enter sewers or waterways. Assure conformity with applicable governmental regulations.

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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.

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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>
</table>

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### 9. Physical and Chemical Properties

- **Appearance and Odor:** Dark liquid. Mild petroleum odor
- **Vapor Pressure:** 3
- **Boiling Point:** 300-350°F
- **Melting Point (R & B):** N/A
- **Solubility in water:** Insoluble.
- **Specific Gravity (H2O=1):** 0.8 - 0.99
- **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.

**STABLE**

**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
11. Toxicological Information

**Mixture Toxicity**

Dermal Toxicity LD50: 4,997mg/kg
Inhalation Toxicity LC50: 1mg/L

**Component Toxicity**

- 64742-95-6 Aromatic Petroleum Distillates
  - Dermal LD50: 4,000 mg/kg (Rabbit)
- 8052-42-4 Asphalt
  - Oral LD50: 5,000 mg/kg (Rat)
  - Dermal LD50: 2,000 mg/kg (Rabbit)
  - Inhalation LC50: 94 mg/m3 (Rat)
- 8052-41-3 Aliphatic Petroleum Distillates
  - Oral LD50: 5 g/kg (Rat)
  - Dermal LD50: 3 g/kg (Rabbit)
  - Inhalation LC50: 18 g/m3 (Rat)

**Effects of Overexposure**


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 | 1 |
| 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
Instability
Special

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.