ArrMuls® 310 is an anionic asphalt emulsifier chemical designed to produce solventless emulsions that wet and penetrate loose and compacted granular materials. ArrMuls 310 dust suppressant emulsions reduce dust by permanently binding particles together, thereby reducing their ability to become airborne by wind and vehicle tires. ArrMuls 310 prime coat emulsions function to penetrate and bind the base material particles together, creating a durable and waterproof surface to bond the asphalt pavement to.

**Applications:**
- Dust Suppressant
- Penetrating Prime Coat

**Features and Benefits:**

**Effectiveness**
- Wets, penetrates and binds dust particles and granular base materials of any mineralogy together, under any environmental conditions
- Most durable dust suppressant under heavy, high volume traffic
- Densifies and waterproofs roadway after repeated applications, reducing road maintenance and improving safety

**Compatibility:**
- Asphalt: Compatible with a wide variety of asphalts
- Granular Materials and Soils: Compatible with damp and dusty granular materials and soils of various mineralogies, including granite, diabase, basalt, chert, limestone, dolomites, sandstone, coal, fly ash and slag

**Efficiency**
- Lowest application frequency of any dust control application type
- Will not wash away in rain, unlike water soluble chloride salts and lignin derivatives
- Dilute with water to desired concentration

**Environmentally Friendly**
- Noncorrosive to metal, unlike chloride salts and lignin derivatives
- Water quality and plant species impact low compared to chloride salts
- Will not leach dangerous polyaromatic hydrocarbons (PAH’s), unlike solvents contained in asphalt cutbacks
- Will not wash away and carry into waterways, unlike water soluble chloride salts and lignin derivatives

**Use ArrMuls 310 When You Need:**
- Dust suppressant emulsions that wet and bind dust particles of any mineralogy
- A more effective and environmentally friendly dust suppressant alternative to chloride salts and lignin derivatives
- A solventless, low VOC prime coat emulsion that effectively penetrates

**Availability:**
ArrMuls 310 is available for shipment in bulk by tank truck. Packaged quantities are available in 275 gal/1,041 L IBC totes (2,250 lb/1,020.6 kg net weight) and 55 gal/208 L metal drums (450/204.1 kg net weight).
Usage Recommendations:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance, 77°F (25°C)</td>
<td>Amber Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Very Mild</td>
</tr>
<tr>
<td>Density, 77°F (25°C)</td>
<td>8.95 lbs/gal (1.07 kg/L)</td>
</tr>
<tr>
<td>Viscosity, 77°F (25°C)</td>
<td>800 cP</td>
</tr>
<tr>
<td>Pour Point</td>
<td>&lt; 50°F (10°C)</td>
</tr>
<tr>
<td>TSCA Inventory</td>
<td>Listed</td>
</tr>
<tr>
<td>DSL Inventory</td>
<td>Listed</td>
</tr>
<tr>
<td>C.A.S. Number</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

*The density and viscosity data reported are typical and not specifications. Typical ranges for density and viscosity values are ± 2 and ± 20%.

Handling and Storage:

Always handle ArrMuls products in accordance with Safety Data Sheet (SDS) and proper safety procedures. Avoid product contamination with other materials. Do not heat product in excess of 140°F (60°C) for prolonged periods. Recommended product storage and handling temperature range is 60 – 100 °F (16 – 38°C).

Technical Support:

To request additional product information, contact your regional Road Science representative. You can also contact us at 918-960-3800 or customerservice@roadscience.net, or visit our website at www.roadscience.net.