**ACTIV-8® AND ACTIV-8® HGL**

Drier Stabilizer and Accelerator

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**TECHNICAL DATA**

**ACTIV-8** and **ACTIV-8 HGL** are drier accelerators and stabilizers when used with metal driers in waterborne and solvent-borne paints and coatings. **ACTIV-8** and **ACTIV-8 HGL** are solutions of the chelating agent 1,10-phenanthroline.

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### TYPICAL COMPOSITION

<table>
<thead>
<tr>
<th></th>
<th>ACTIV-8</th>
<th>ACTIV-8 HGL</th>
</tr>
</thead>
<tbody>
<tr>
<td>by wt.</td>
<td>by vol.</td>
<td>by wt.</td>
</tr>
<tr>
<td>1,10-phenanthroline</td>
<td>38% 28%</td>
<td>38% 31%</td>
</tr>
<tr>
<td>n-butanol</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2-ethylhexoic acid</td>
<td>10% 11%</td>
<td>-</td>
</tr>
<tr>
<td>hexylene glycol</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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### TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>ACTIV-8</th>
<th>ACTIV-8 HGL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density at 25 °C (Mg/m³)</td>
<td>0.95</td>
<td>1.03</td>
</tr>
<tr>
<td>Weight/gallon (Lbs/gal)</td>
<td>7.89</td>
<td>8.59</td>
</tr>
<tr>
<td>Flash point, °F/°C</td>
<td>97/36</td>
<td>211/99</td>
</tr>
<tr>
<td>Volatile Organic Content</td>
<td>4,1 lbs/gal 492 g/L</td>
<td>5.3 lbs/gal 636 g/L</td>
</tr>
</tbody>
</table>

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### APPLICATIONS

**ACTIV-8** and **ACTIV-8 HGL** are used in combination with manganese and/or cobalt driers in coatings that cure by oxidative polymerization to improve dry times. In general, **ACTIV-8** is used in solvent-borne coatings and **ACTIV-8 HGL** is used in waterborne coatings. Long term aging stability is also improved, especially in waterborne coatings where loss-of-dry often occurs.

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### DRIER RECOMMENDATIONS

- For waterborne coatings it is recommended to use 0.1-0.25% **ACTIV-8 HGL**, based on resin solids, in combinations with cobalt or manganese driers such that there is a 5 to 1 ratio of **ACTIV-8 HGL** to metal drier.

- For solvent-borne coatings it is recommended to use 0.2-0.5% **ACTIV-8**, based on resin solids, in combinations with cobalt or manganese driers such that there is a 10 to 1 ratio of **ACTIV-8** to metal drier.

- For the best overall combined performance of drying, long term loss-of-dry stability, and color, it is recommended that the driers and **ACTIV-8** be preblended in a suitable solvent. Preblending, in the absence of competitive substances, allows for the proper chelation of 1,10-phenanthroline with the drier metal.

- For a detailed explanation of how to determine the quantities of **ACTIV-8** or **ACTIV-8 HGL** to be used in a coating, as well as information on drier preblends, consult the “How-to” Guide for the Use of **ACTIV-8** on the Vanderbilt Minerals, LLC website.

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*Please see user advisory on next page.*
**STORAGE AND HANDLING**

To maintain product quality, protect from freezing which can cause crystallization. If crystallization occurs, gently warm the product to dissolve the crystals.

**ACTIV-8** and **ACTIV-8 HGL** will react with iron causing a reddish discoloration to white and light-colored paints. Care should be taken to insure **ACTIV-8** and **ACTIV-8 HGL** do not come in contact with iron contaminants and are stored in lined metal containers.

Zinc in the form of zinc drier, zinc phosphate or zinc oxide blocks the activity of **ACTIV-8** and **ACTIV-8 HGL**. If **ACTIV-8** or **ACTIV-8 HGL** is to be used in a coating containing zinc, preblend **ACTIV-8** or **ACTIV-8 HGL** with the metal drier prior to exposure to zinc to allow for proper chelation.

**CONTACT INFORMATION**

For samples, product information and/or technical service please contact Vanderbilt Minerals, LLC or the Vanderbilt representative in your area:

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