JEFFAMINE® D-230 Polyetheramine

**Applications**
- Epoxy curing agent
- Reacts with carboxylic acids to form hot melt adhesives
- Reacts quickly with isocyanates
- Salts may be formed readily for surfactant use

**Benefits**
- Low viscosity, color and vapor pressure
- Completely miscible with a wide variety of solvents, including water
- Provides tough, clear, impact resistant coatings, castings, and adhesives
- Coatings are free of surface blush prevalent with many amine curing agents

### Sales Specifications

<table>
<thead>
<tr>
<th>Property</th>
<th>Specifications</th>
<th>Test Method*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless to pale yellow liquid with slight haze permitted</td>
<td>ST-30.1</td>
</tr>
<tr>
<td>Color, Pt-Co</td>
<td>25 max.</td>
<td>ST-30.12</td>
</tr>
<tr>
<td>Primary amine, % of total amine</td>
<td>97 min.</td>
<td>ST-5.34</td>
</tr>
<tr>
<td>Total acetylatable, meq/g</td>
<td>8.3 – 9.1</td>
<td>ST-31.39</td>
</tr>
<tr>
<td>Total amine, meq/g</td>
<td>8.1 – 8.7</td>
<td>ST-35.5</td>
</tr>
<tr>
<td>Total amine, % acetylatable</td>
<td>94.0 min.</td>
<td>Calculated</td>
</tr>
<tr>
<td>Water, wt%</td>
<td>0.20 max.</td>
<td>ST-31.53, 6</td>
</tr>
</tbody>
</table>

*Methods of Test are available from Huntsman Corporation upon request.

### ADDITIONAL INFORMATION

**Regulatory Information**
See SDS for all regulatory information.

**Shelf Life**
The product should retain its conformance to sales specifications for a period of at least two years from date of manufacture if the product is stored at less than 100°F in its undamaged, unopened, factory-packaged container.

In general, the user should determine the suitability of any chemical compound, no matter what the shelf life or length of time of storage. Each user should conduct a sufficient investigation to establish the suitability of any product for his intended use.

**Typical Properties**
- AHEW (Amine hydrogen equivalent wt.), g/eq: 60
- Equivalent wt. with isocyanates, g/eq: 120
- Viscosity, cSt, 25°C (77°F): 9.5
- Density, g/ml (lb/gal), 25°C: 0.948 (7.90)
- Flash point, PMCC, °C (°F): 121 (250)
- pH, 5% aqueous solution: 11.7
- Refractive index, nD20: 1.4466
- Vapor pressure, mm Hg/°C: 1/100 10/133
TOXICITY AND SAFETY
For additional information on the toxicity and safe handling of this product, consult the Safety Data Sheet prior to use of this product.

HANDLING AND STORAGE

Materials of Construction

At temperatures of 75-100°F (24-38°C)

- Tanks: Carbon steel
- Lines, valves: Carbon steel
- Pumps: Carbon steel
- Heat exchange Surfaces: Stainless steel
- Hoses: Stainless steel, polyethylene, polypropylene, and TEFiON®
- Gaskets, packing: Polypropylene or TEFiON® (elastomers such as neoprene, Buna N, and VITON® should be avoided)
- Atmosphere: Nitrogen or dry air

At temperatures above 100°F (38°C)

- Tanks: Stainless steel or aluminum
- Lines, Valves: Stainless steel
- Pumps: Stainless steel or Carpenter 20 equivalent
- Atmosphere: Nitrogen

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JEFFAMINE® D-230 polyetheramine may be stored under air at ambient temperatures for extended periods. A nitrogen blanket is suggested for all storage, however, to reduce the effect of accidental exposure to high temperatures and to reduce the absorption of atmospheric moisture and carbon dioxide. It should be noted that pronounced discoloration is likely to occur at temperatures above 140°F (60°C), whatever the gaseous pad.

Cleanout of lines and equipment containing JEFFAMINE D-230 polyetheramine can be accomplished using warm water and steam. In the event of spillage of this product, the area may be flushed with water. The proper method for disposal of waste material is by incineration with strict observance of all federal, state, and local regulations.

AVAILABILITY

JEFFAMINE D-230 polyetheramine is available in tank cars, tank wagons, drums of 430 pounds (195kg) net weight. Samples are available in North America by contacting our sample department at 1-800-662-0924. Samples in other regions are available by contacting any Huntsman Corporation sales office.