

# Calfax Disulfonates

– Maximum Strength Surfactants

[www.pilotchemical.com](http://www.pilotchemical.com)

2744 East Kemper Road • Cincinnati, OH 45241

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Calfax<sup>®</sup> surfactants are disulfonated surfactants with structural features that give them unique and useful properties. The composition of each Calfax<sup>®</sup> product is fully optimized to maximize all the desirable properties of a surfactant. Calfax<sup>®</sup> products offer excellent emulsification, great detergency, very low critical micelle concentrations (CMC), high efficiency, very high water solubility, superior water hardness tolerance, exceptional electrolyte tolerance, and excellent compatibility with chlorine bleach, hydrogen peroxide, acids, and bases. Below is a chart to help illustrate some of the many features and benefits of the unique chemistries of Pilot Chemical's Calfax<sup>®</sup> products in various HI&I applications.

Application	Feature	Benefit
<b>Glass cleaner, Window cleaner, Windshield wash, All purpose cleaner</b>	<ul style="list-style-type: none"> <li>No residue</li> </ul>	<ul style="list-style-type: none"> <li>Streak free cleaning,</li> <li>Use 10L-45 for low foaming &amp; DB-45 for higher foaming</li> <li>Typical use level, 0.2 – 3.0%</li> </ul>
<b>Laundry detergents</b>	<ul style="list-style-type: none"> <li>Low CMC</li> <li>Hydrotroping</li> <li>Detergency and Cleaning</li> <li>Alkali stability</li> </ul>	<ul style="list-style-type: none"> <li>Less surfactant required</li> <li>Viscosity reducer, coupler</li> <li>High active 2X, 3X products can be formulated</li> <li>Use DB-45 for laundry detergent formulas</li> <li>I &amp; I laundry formulas with high caustic contents use DB-45 at a typical use level of 5.0 - 20.0%</li> </ul>
<b>Foaming bleaches</b>	<ul style="list-style-type: none"> <li>Bleach stability</li> </ul>	<ul style="list-style-type: none"> <li>Provide cleaning and detergency</li> <li>Use DB-45, typical use level is 3.0-10.0%</li> </ul>
<b>Manual (hand) dishwash</b>	<ul style="list-style-type: none"> <li>Detergency and Cleaning</li> <li>Grease cutting</li> <li>Hydrotroping</li> </ul>	<ul style="list-style-type: none"> <li>Grease removal</li> <li>High active super ultra formulations use DB-45 with a typical use level of 5.0 - 20.0%</li> </ul>
<b>Autodish slurry</b>	<ul style="list-style-type: none"> <li>Bleach stability</li> <li>Wetting</li> <li>No residue</li> </ul>	<ul style="list-style-type: none"> <li>Cleaning in bleach</li> <li>Cleaning, detergency</li> <li>Streak free</li> <li>Use 10L-45, typical use level is 0.5 - 3.0%</li> </ul>
<b>Deck Cleaner</b>	<ul style="list-style-type: none"> <li>Bleach stability</li> </ul>	<ul style="list-style-type: none"> <li>Cleaning in bleach</li> <li>Use DB-45, typical use level is 2.0 - 8.0%</li> </ul>
<b>Peroxy Cleaner</b>	<ul style="list-style-type: none"> <li>Peroxide stability</li> </ul>	<ul style="list-style-type: none"> <li>Cleaning, detergency</li> <li>Use 10L-45, typical use level is 1.0 - 5.0%</li> </ul>
<b>Heavy duty industrial</b>	<ul style="list-style-type: none"> <li>Alkali stability</li> <li>Hydrotroping</li> </ul>	<ul style="list-style-type: none"> <li>Detergency, wetting</li> <li>Low viscosity, clarity</li> <li>Use DB-45, typical use level is 5.0 - 15.0%</li> </ul>
<b>D'limonene / Pine Oil cleaners</b>	<ul style="list-style-type: none"> <li>Emulsification in presence of electrolytes</li> </ul>	<ul style="list-style-type: none"> <li>Crystal clear formulas with high detergency and solvency</li> <li>Use DB-45 / 16L-35, typical use level is 5 - 15%</li> </ul>



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<b>Concrete cleaner</b>	<ul style="list-style-type: none"><li>• Low interfacial tension</li></ul>	<ul style="list-style-type: none"><li>• Detergency, greasy soil removal</li><li>• Use 16L-35, typical use level is 3.0 - 8.0%</li></ul>
<b>Tub &amp; tile cleaner</b>	<ul style="list-style-type: none"><li>• Stability at low pH</li><li>• Hard water tolerance</li></ul>	<ul style="list-style-type: none"><li>• Soap scum removal</li><li>• Removal of hard water deposits</li><li>• Use 10L-45, typical use level is 2.0 - 5.0%</li></ul>
<b>Toilet bowl cleaner</b>	<ul style="list-style-type: none"><li>• Stability in strong acids</li></ul>	<ul style="list-style-type: none"><li>• Toilet soil removal</li><li>• Calcium deposit removal</li><li>• Use DB-45, typical use level is 5.0 - 15.0%</li></ul>
<b>Car wash presoak</b>	<ul style="list-style-type: none"><li>• Stability in high % of electrolytes</li></ul>	<ul style="list-style-type: none"><li>• Detergency, cleaning of road film</li><li>• Use DB-45, typical use level is 3.0 - 10.0%</li></ul>
<b>Food processing plant</b>	<ul style="list-style-type: none"><li>• Stability in high alkaline formulas</li></ul>	<ul style="list-style-type: none"><li>• Detergency, cleaning of greasy soil</li><li>• Use DB-45, typical use level is 5.0 - 10.0%</li></ul>
<b>High active surfactants</b>	<ul style="list-style-type: none"><li>• Concentrated product</li></ul>	<ul style="list-style-type: none"><li>• Less water shipment</li><li>• Amine neutralized DBA-70 or 10LA-75</li></ul>

**For More Information and Samples  
Contact Pilot Chemical**

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