Capstone™ FS-61 Fluorosurfactant

Technical Information

Description
Capstone™ FS-61 is a VOC-free, APEO-free, water-based, anionic fluorosurfactant that provides extremely low aqueous surface tension only achievable with fluorosurfactants. FS-61 offers excellent wetting, leveling, thin film control, anti-blocking, and oil repellency to water-based coatings systems. The multi-functional properties of FS-61 can help simplify formulations and improve performance.

Applications
Additive to Low VOC Architectural Coatings
- Multi-functional additive that provides anti-blocking, oil repellency, and dirt pick-up resistance
- When used in a formulation, existing wetting, leveling, and defoamer additives should be tuned to minimize total surfactants for maximum benefit
- Suggested use rates are 0.02–0.04% active ingredient (A.I.) in wet paint by weight

Water-Based Floor Care (Finishes, Waxes, and Polishes)
- Provides wetting and enhanced leveling
- Good re-wet characteristics in multi-coat applications
- Reduces cratering and provides faster spreading
- Suggested use rates are 0.005–0.02% A.I. in total formulation by weight

Specialty Cleaners
- Lowers surface tension to improve cleaning efficiency in metal cleaning, car washes, and glass cleaners
- Suggested use rates are 0.01–0.03% A.I. in total formulation by weight

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Pale yellow to dark amber liquid; clear to hazy liquid</td>
</tr>
<tr>
<td>pH</td>
<td>7.5–9.0</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.1 g/mL</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Does not flash</td>
</tr>
<tr>
<td>Stability</td>
<td>This product should be protected from freezing and is intended for use in formulations with a pH range of 6.5–12.0.</td>
</tr>
<tr>
<td>Composition</td>
<td>14% solids</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>2 years</td>
</tr>
<tr>
<td>Foam</td>
<td>Can foam with excessive shaking</td>
</tr>
</tbody>
</table>

Performance

Surface Tension

![Surface Tension Graph](image)
Handling

- Mix well before use.
  - Especially when taking a partial sample from the container
  - For drum size containers, thorough agitation, including use of a drum agitator with low speed mixing, may be necessary to ensure consistent percentage solids throughout.
- This product is perishable if frozen. Keep the product above 0 °C (32 °F) during storage and transportation.
- The viscosity of the product may increase over time or with cold storage, due to the zero VOC nature of this product. A viscosity increase will not affect the product performance.

Capstone™ Repellents and Surfactants

- Deliver more sustainable solutions with maximum performance
- Are in compliance with REACH requirements
- Are listed on TSCA inventory

For questions regarding technical data, commercialization, and sampling:

Chemours Fluoroproducts

For more information, visit www.capstone.chemours.com