TECHNICAL DATA SHEET

Flexisurf™ EHS-40
Ammonium 2-Ethylhexyl sulfate

Overview
- 40% active Ammonium 2-Ethylhexyl sulfate in water
- Low foam, ammonium salt anionic surfactant
- Compatible with nonionic, anionic and amphoteric surfactants
- Provides low foaming detergency
- Versatile surfactant for wetting, emulsification, solubilizing and emulsification
- Efficient hydrotrope for coupling nonionic surfactants into highly concentrated electrolyte systems
- CAS#70495-37-3/EINECS#274-625-4

Applications
- Hard surface cleaners
- Concentrated Liquid, low foaming detergents
- Carpet care and maintenance
- Textile scour, mercerizing and finishing
- Industrial cleaners
- Clean-In-Place detergent
- Dry cleaning surfactant
- Paints and coatings
- Oil Field
- Car Wash
- Emulsion polymerization

Technical Information
Flexisurf EHS-40 is a versatile anionic surfactant that contributes low foam, cleansing and solubilizing properties to formulations ranging from industrial degreasers to vehicle wash. Effective in neutral and ammoniated solutions, multi-functional EHS-40 compatibilizes nonionic surfactants in high electrolyte formulations while contributing detergency with controlled foam, unlike simple hydrotropes.

In textile finishing, Flexisurf EHS-40 is a highly effective wetting agent for facilitating bleaching, dyeing and finishing of cellulosic fibers, synthetic fibers and wool in the form of loose stock, yarn or piece goods. Compatible with low foam nonionics, contributes foam-suppressing and deaerating effects. Effective for increasing liquor pick up in padding processes.

Formulary
Flexisurf EHS-40 is a low foamer that provides good detergency in systems that require high cloud points.

Recommended usage:
- Hard Surface Cleaners 1% - 2%
- Spray Cleaners 1% - 2%
- Wax Stripper 3% - 5%
- All Purpose Cleaners 5% - 10%
- Textile Pad/Exhaust 0.1-0.5%

Typical Properties

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, light amber liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Ionic character</td>
<td>Anionic</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble</td>
</tr>
<tr>
<td>Solids content, %</td>
<td>40.0±1.5</td>
</tr>
<tr>
<td>pH (10% aq.)</td>
<td>8.0±1.0</td>
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<tr>
<td>Density@25°C</td>
<td>1.02±0.04</td>
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<tr>
<td>Boiling Point</td>
<td>100°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>None (aqueous)</td>
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<tr>
<td>Storage</td>
<td>Stable to freezing</td>
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<tr>
<td>Shelf life</td>
<td>12 months</td>
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</tbody>
</table>

Packaging and Handling
Flexisurf EHS-40 is available in:
- 275 gallon totes (Net Wt. 2250 lbs)
- 55 gallon plastic drums (Net Wt. 450 lbs)
- 5 gallon pails (Net Wt. 40 lbs).

Refer to Material Safety Data Sheet (MSDS) for information on the safe use, handling, and disposal of this product.

DOT Classification: Non-Regulated

Whether you’re looking for a replacement product, or an ingredient for a specific attribute, give us a call. We can provide assistance based upon your particular formulation requirements and composition; please feel free to contact us.

Please refer to back page for important information
Flexisurf EHS-40: Low foam anionic surfactant

Flexisurf EHS-40 is a low foam, anionic surfactant effective as a wetting agent, penetrant, hydrotrope and solubilizer for use in textile processing and hard surface cleaning applications.

The compact 2-ethylhexyl alkyl group and large ionic radius allows for unique anionic/cationic pair mixed micelle application in microemulsion formation. The low foaming characteristics of EHS-40 allow use as a wetting agent in carpet care products, low foam spray & wipe cleaners, and high speed and continuous process applications such as clean-in-place and textile mercerizing.

Mercerizing

Mercerizing is a textile finishing process for tailoring the dimensions and properties of cellulosic materials to shrink, swell, stretch and relax to obtain a variety of effects such as enhanced lustre and drape, improved tensile strength and affinity for dyes. Mercerizing is a high speed mechanical process, swelling and stretching cellulosic fibers in a highly alkaline solution of metal hydroxides or liquid ammonia. Surfactants are typically used in the mercerizing process to speed wetting and to allow for more uniformly treated fabric bundles. Being a high speed mechanical process, these surfactants have to meet application requirements such as low foam and fast wetting. Flexisurf EHS-40 has been developed to meet the needs of the ammonia mercerizing process.

The substances in Flexisperse EHS-40 are listed on the TSCA inventory, and are listed on the following Inventories: Canada (NDSL), Europe (EINECS), Australia (AICS), China (IECSC), Japan (ENCS), Korea (ECL)