

# Surfynol® 104E Surfactant

## Nonionic Dynamic Wetting Agent and Molecular Defoamer



### Description

Surfynol 104E surfactant is a Gemini wetting agent and molecular defoamer formulated to provide a unique combination of performance benefits. Surfynol 104E surfactant's unique chemical structure allows this product to provide multifunctional properties such as surface tension reduction, foam control, and viscosity stabilization. The hydrophobic nature of Surfynol 104E surfactant can result in significantly reduced water sensitivity compared to either conventional ethoxylated or anionic surfactants. Due to its multifunctional properties, Surfynol 104E surfactant can provide performance benefits in many waterborne applications such as coatings, paints, adhesives, inks, pigment manufacture and dispersion, cements, metalworking lubricants, agricultural chemicals, and dye processing. Surfynol 104E surfactant contains no added alkylphenol ethoxylates (APEs), silicones or fluorosurfactants.

### Features and Benefits

- Low dynamic surface tension
- Ability to wet contaminated substrates
- Non-micelle forming
- Stability between pH 3-10
- Prevents surface defect problems such as fisheyes, crawling, and cratering on low-energy substrates
- Reduces microfoam in spray-applied systems
- Improves pigment grind efficiency
- Reduces water sensitivity
- Defoams, de-airetrains, and improves flow
- Enhances leaf and soil penetration while improving bloom and stability in agricultural chemical formulations
- Lubricates, wets, and prevents smut formation while eliminating hot spots in metalworking fluids

### Applications

- Automotive coatings
- Factory-applied and DIY wood coatings
- Industrial maintenance coatings
- Printing inks
- Overprint varnishes
- Fountain solutions
- Pressure sensitive adhesives
- Pigment synthesis and grinding/dispersing
- Dye processing
- Agricultural chemicals
- Metalworking fluids

### Typical Properties<sup>1</sup>

|                           |                           |
|---------------------------|---------------------------|
| Appearance                | Clear, pale yellow liquid |
| Activity                  | 50%                       |
| Solvent                   | Ethylene glycol           |
| Viscosity @ 20 °C (mPa·s) | 100                       |
| Specific Gravity @ 21 °C  | 1.0                       |
| Flash Point (°C)          | 111                       |
| Pour Point (°C)           | -17                       |

<sup>1</sup>These are typical properties only and do not represent sales or manufacturing specifications.

### Recommended Usage

Between 0.10 and 1.5% of total formulation weight is recommended.

### Storage and Handling

Keep containers tightly closed in a dry, cool, and well-ventilated place. Product is freeze-thaw stable; if it phase separates or freezes at colder temperatures, warm container to 40 °C and mix thoroughly before use.

Please refer to the MSDS for the most current information.

### Shelf Life

The shelf life for this product is 60 months from the date of manufacture.

### Additional Product Information

Link to [MSDS Library](#)

For more information, please contact us at:

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