



**NUMBER 4401-2** (Supersedes 4401-1)

## **Dextrol™ OC-70 Phosphate Ester Surfactant** *For Emulsion Polymerization and Waterborne Architectural Coatings*

Dextrol OC-70 surfactant is the free acid form of a tridecyl alcohol ethoxylated phosphate ester. It is an effective emulsifier in emulsion polymerization and provides the finished latex with low coagulum and improved handling and storage stability. Dextrol OC-70 surfactant can be neutralized by the user to any degree using a number of organic or inorganic bases.

Dextrol OC-70 surfactant can also impart improved gloss and color acceptance in waterborne latex paints. Dextrol OC-70 surfactant does not contain any alkyl phenol ethoxylates (APEOs).

### **Typical Properties<sup>(a)</sup>**

Chemical type.....	Phosphate Ester (anionic)
Appearance.....	Clear yellow to slightly amber liquid
Active solids, weight % .....	97 ± 1%
Moles of EO .....	10
Gardner Color.....	6 maximum
Viscosity <sup>(b)</sup> , as supplied (cps or mPa·s).....	600 - 1,000
Density, g/mL .....	1.06
Density, lb/gal.....	8.8
Acid number, pH 5.5.....	60 - 70
Acid number, pH 9.5.....	100 - 120
pH, 1% aqueous solution .....	2.2 – 2.8
Flash point <sup>(c)</sup> .....	> 300°F (149°C)

<sup>(a)</sup> Values are typical properties and are not to be regarded as product specifications.

<sup>(b)</sup> Brookfield RVT viscosity at 25°C (77°F).

<sup>(c)</sup> Tag closed cup

### **Product Benefits**

- Low coagulum in finished latex
- Improves stability of finished latex
- Enhances color properties
- Excellent wetting & dispersion of pigments
- Increases gloss in paint
- Improved substrate wetting
- Inhibition of flash & nail head rusting

### **Recommended Use Levels**

- In emulsion polymerization, Dextrol OC-70 surfactant is typically used at 1.5-3% by weight on total monomers.
- In flat, semi-gloss and gloss paints, 2-4 pounds of Dextrol OC-70 surfactant per 100 gallons (0.2-0.4%) of finished paint are recommended.



## Chemical Inventories

All components of Dextrol™ OC-70 surfactant are listed on TSCA chemical inventory (USA). This product is EINECS compliant.

## Volatile Organic Compounds (VOCs)

Dextrol OC-70 surfactant is formulated as solvent-free. As such, the VOC content of this product should be non-detectable using the standard U.S. EPA Reference Method 24.

## APEO & Glycol Content

Dextrol OC-70 surfactant does not contain any alkyl phenol ethoxylates (APEOs). Glycols are not intentionally added or known to be present in Dextrol OC-70 surfactant.

## Product Safety

Please read and understand the MSDS before using this product.