



NUMBER 4400-4 (Supersedes 4400-3)

Dextrol™ OC-60 Phosphate Ester Surfactant

For Emulsion Polymerization and Waterborne Architectural Coatings

Dextrol OC-60 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-60 surfactant can be neutralized by the user to any degree using a number of organic or inorganic bases. Dextrol OC-60 surfactant can also impart improved gloss and color acceptance in waterborne latex paints. Dextrol OC-60 surfactant does not contain any alkyl phenol ethoxylates (APEOs).

Typical Properties*

Chemical type	Phosphate Ester (anionic)
Appearance	Clear to hazy liquid
Active solids, weight %	97 ± 1%
Moles of EO	6
Gardner Color	6 maximum
Viscosity ^(b) , as supplied (cps or mPa•s)	600-1,000
Density, g/mL	1.06
Density, lb/gal	8.8
Acid number, pH 5.5	75-95
Acid number, pH 9.5.	125-150
pH, 10% aqueous solution.....	1.5-2.5
VOC content, weight %	Not detectable
Flash point(c).	>200°F (93°C)

^(a) Values are typical properties and are not to be regarded as product specifications.

^(b) Brookfield RVT viscosity at 25°C (77°F).

^(c) Tag closed cup

Product Benefits

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

Recommended Use Levels

- In emulsion polymerization, Dextrol OC-60 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-60 surfactant per 100 gallons (0.2-0.4%) of finished paint are recommended.

Chemical Inventories

All components of Dextrol OC-60 surfactant are listed on TSCA chemical inventory (USA). This product is EINECS compliant.



Volatile Organic Compounds (VOCs)

Dextrol OC-60 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 and Glycol Content

Dextrol OC-60 surfactant does not contain any alkyl phenol ethoxylates (APEOs). Glycols are not intentionally added or known to be present in Dextrol OC-60 surfactant.

Product Safety

Read and understand the Material Safety Data Sheet (MSDS) before using this product.