



NUMBER 4402-2 (Supersedes 4402-1)

Dextrol™ OC-110 Phosphate Ester Surfactant *For Emulsion Polymerization and Waterborne Architectural Coatings*

Dextrol OC-110 surfactant is the free acid form of a nonyl phenol 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-110 surfactant can be neutralized by the user to any degree using a number of organic or inorganic bases.

Dextrol OC-110 surfactant can also impart improved gloss and color acceptance in waterborne latex paints.

Typical Properties^(a)

Chemical type.....	Phosphate Ester (anionic)
Appearance.....	Clear viscous liquid
Active solids, weight %	99 ± 1%
Moles of EO	4
Gardner Color.....	6 maximum
Viscosity ^(b) , as supplied (cps or mPa·s).....	32,500 – 42,500
Density, g/mL	1.10
Density, lb/gal.....	9.2
Acid number, pH 5.5.....	85 - 100
Acid number, pH 9.5.....	160 - 180
pH, 1% aqueous solution.....	1.5 – 2.5
Flash point ^(c)	> 300°F (149°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 & dispersion of pigments
- Increases gloss in paint
- Improved substrate wetting
- Inhibition of flash & nail head rusting

Recommended Use Levels

- In emulsion polymerization, Dextrol OC-110 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-110 surfactant per 100 gallons (0.2-0.4%) of finished paint are recommended.



Chemical Inventories

All components of Dextrol™ OC-110 surfactant are listed on TSCA chemical inventory (USA). This product is EINECS compliant.

Volatile Organic Compounds (VOCs)

Dextrol OC-110 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.

Glycol Content

Glycols are not intentionally added or known to be present in Dextrol OC-110 surfactant.

Product Safety

Please read and understand the MSDS before using this product.