

NUMBER 4398-4 (Supersedes 4398-3)

Dextrol™ OC-40 Phosphate Ester Surfactant

For Emulsion Polymerization and Waterborne Architectural Coatings

Dextrol OC-40 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-40 surfactant can be neutralized by the user to any degree using a number of organic or inorganic bases.

Dextrol OC-40 surfactant can also impart improved gloss and color acceptance in waterborne latex paints. Dextrol OC-40 surfactant does not contain any alkyl phenol ethoxylates (APEOs).

Typical Properties^(a)

Chemical type.....	Phosphate Ester (anionic)
Appearance.....	Clear to slightly amber liquid
Active solids, weight %.....	97 ± 1%
Moles of EO.....	3
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.....	110 - 120
Acid number, pH 9.5.....	150 - 180
pH, 10% 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 and dispersion of pigments
- Increases gloss in paint
- Improved substrate wetting
- Improved freeze-thaw resistance
- Inhibition of flash and nail head rusting

Recommended Use Levels

- In emulsion polymerization, Dextrol OC-40 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-40 surfactant per 100 gallons of finished paint are recommended.

Chemical Inventories

All components of Dextrol OC-40 surfactant are listed on TSCA chemical inventory (USA).

Volatile Organic Compounds (VOCs)

Dextrol OC-40 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-40 surfactant does not contain any alkyl phenol ethoxylates (APEOs). Glycols are not intentionally added or known to be present in Dextrol OC-40 surfactant.

Product Safety

Please read and understand the MSDS before using this product.