



NUMBER 4399-2 (Supersedes 4399-1)

Dextrol™ OC-50 Phosphate Ester Surfactant

For Waterborne Architectural Coatings, Colorants, and Emulsion Polymerization

Dextrol OC-50 surfactant is the neutralized (sodium salt) form of a nonylphenol ethoxylated phosphate ester. It is designed to impart improved gloss and color acceptance in waterborne latex paints. Depending on the formulation specifics, Dextrol OC-50 surfactant can also function as a supplemental dispersant to assist in reduction of pigment flocculation.

In addition to use in latex paint, Dextrol OC-50 surfactant provides benefits in universal colorants, to help disperse and stabilize the pigments, thereby enhancing color acceptance for water-based paints tinted at point-of-sale.

Dextrol OC-50 surfactant is an effective emulsifier in emulsion polymerization. It provides the finished latex with low coagulum and improved handling and storage stability.

Typical Properties^(a)

Chemical type.....	Phosphate Ester (anionic)
Appearance.....	Clear liquid
Active solids, weight %	90 ± 2%
Moles of EO	6
Gardner Color.....	2 maximum
Viscosity ^(b) , as supplied (cps or mPa·s).....	4,000 – 8,000
Density, g/mL	1.10
Density, lb/gal.....	9.2
pH, 10% aqueous solution	5.3 - 5.7
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), spindle #5 at 30 rpm.

^(c) Tag closed cup

Product Benefits

- Increases gloss
- Enhances color properties
- Excellent wetting & dispersion of pigments
- Improved substrate wetting
- Low water sensitivity
- Flash rust inhibition
- May improve open time & block resistance

Recommended Use Levels

- In flat, semi-gloss and gloss paints, 2-4 pounds of Dextrol™ OC-50 surfactant per 100 gallons (0.2-0.4%) of finished paint are recommended.
- In universal colorants, 5-10% by weight of Dextrol OC-50 surfactant is recommended on pigment.
- In emulsion polymerization, Dextrol OC-50 surfactant is typically used at 1.5-3% by weight on total monomers.



Chemical Inventories

All components of Dextrol OC-50 surfactant are listed on TSCA chemical inventory (USA).

Volatile Organic Compounds (VOCs)

Dextrol OC-50 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.

Product Safety

Please read & understand the MSDS before using this product.