Hercules Incorporated
Aqualon Division
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Product Data

NUMBER 4413-1

Dextrol® OC-20 Phosphate Ester Surfactant
For Emulsion Polymerization

Dextrol® OC-20 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-20 surfactant can be neutralized by the user to any degree using a number of organic or inorganic bases.

Dextrol® OC-20 surfactant is effective in the production of all common latex types including, vinyl, vinyl acrylic, vinyl acetate ethylene (VAE), acrylic and styrene acrylic. It can also impart improved gloss and color acceptance to waterborne latex paints formulated with these resins.

Typical Properties[a]

Chemical type	Phosphate Ester (anionic)
Appearance	Clear liquid
Active solids, weight %	99 ± 1%
Moles of EO	9
Gardner Color	4 maximum
Viscosity[b], as supplied (cps or mPa·s)	4,600 – 6,600
Density, g/mL	1.11
Density, lb/gal	9.3
Acid number, pH 5.5	67 - 70
Acid number, pH 9.5	110 - 120
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

(continued)

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
- Improved freeze-thaw resistance
- Inhibition of flash & nail head rusting

Recommended Use Levels

- In emulsion polymerization, Dextrol® OC-20 surfactant is typically used at 1.5-3% by weight on total monomers.

Volatile Organic Compounds (VOCs)

Dextrol® OC-20 is formulated as solvent-free. As such, the VOC content of this product should be non-detectable using the U.S. EPA Reference Method 24.

Glycol Content

Glycols are not intentionally added or known to be present in Dextrol® OC-20 surfactant.

Chemical Inventories

All components of Dextrol® OC-20 are listed on TSCA chemical inventory (USA).

Product Safety

Please read & understand the MSDS before using this product.

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