



NUMBER 4489-4 (Supersedes 4489-3)

Dextrol™ OC-180HS Phosphate Ester Surfactant

For Waterborne Architectural Coatings

Dextrol OC-180HS surfactant is the neutralized (sodium salt) form of an ethoxylated aliphatic alcohol phosphate ester. It is designed to impart improved gloss and color acceptance in waterborne latex paints. Depending on the formulation specifics, Dextrol OC-180HS surfactant can also function as a supplemental dispersant to assist in reduction of pigment flocculation. Dextrol OC-180HS surfactant does not contain any alkyl phenol ethoxylates (APEOs).

In addition to use in latex paint, Dextrol OC-180HS 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. It also can be used as the primary surfactant in emulsion polymerization.

Typical Properties^(a)

Chemical type.....	Phosphate Ester (anionic)
Appearance	Clear liquid
Solids, weight %	92
Solids, volume %.....	91.4
Active Solids, weight %.....	87
Active Solids, volume %.....	86.4
Water, weight %.....	8
Water, volume %.....	8.6
Moles of EO.....	6
Gardner Color.....	6 maximum
Viscosity ^(b) , as supplied (cps or mPa•s)	1500-2700
Density, g/mL.....	1.080-1.102
Density, lb/gal.....	9.1
pH, 1% aqueous solution.....	5.0-5.6
Flash point ^(c)	>200°F (93°C)

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

^(b)Brookfield LV viscosity at 25°C (77°F), spindle #3 at 30 rpm

^(c)Tag closed cup

Product Benefits

- Increases gloss
- Enhances color properties
- Improved substrate wetting
- Excellent wetting and dispersion of pigments
- Low water sensitivity
- Inhibition of flash and nail head rusting
- May improve freeze-thaw resistance of paint
- May improve open time and block resistance

Note: Dextrol OC-180HS was previously named Aqualon™ AQU D-4712 in development.

Recommended Use Levels

- In flat, semi-gloss and gloss paints, 2-5 pounds of Dextrol™ OC-180HS surfactant per 100 gallons of finished paint are recommended.
- In universal colorants, 5-10% by weight of Dextrol OC-180HS surfactant is recommended.

Volatile Organic Compounds (VOCs)

Dextrol OC-180HS surfactant is formulated as solvent-free. As such, the VOC content of this product should be nondetectable using the standard U.S. EPA Reference Method 24. The VOC is <0.01% based on components with boiling points <250C.

APEO Content

Dextrol OC-180HS surfactant does not contain any alkyl phenol ethoxylates (APEOs).

Product Safety

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