**Product Bulletin**

**EMULSION POLYMERIZATION**

**POLYSTEP® P-12A**

**Product Name**

**Chemical Structure**

Phosphate ester of tridecyl alcohol ethoxylate, ammonium salt form.

**Chemical Description**

**CAS Registry Number**

69029-43-2

**Applications**

Stepan phosphate esters produce a variety of stable emulsion polymers for coatings applications. When used in the emulsion polymerization of acrylic, styrene-acrylic, or vinyl-acrylic composition, Stepan phosphate esters demonstrate performance advantages in the following areas:

- Low coagulum
- Particle size control
- Shear stability
- Freeze-thaw stability
- Heat and light stability
- Retard metal substrate corrosion
- Pigment dispersant

**Typical Properties**

- Appearance at 25 °C: Clear liquid
- Solids, %: 25
- Density, g/mL (lbs/U.S. gal): 0.99 (8.3)
- pH, 10% aqueous: 7
- Flash Point, PMCC, °C (°F): >94 (>201)
- Freeze Point, °C (°F): 2 (36)
- Color, Gardner: 3 max
- Typical Critical Micelle Concentration (mg/L): 6
- Typical Surface Tension at CMC, dynes/cm: 35
- RVOC, U.S. EPA, %: 0

**Environmental Effects**

POLYSTEP P-12A is expected to be ready biodegradable. Additional information available upon request.

**Health Effects**

POLYSTEP P-12A is expected to be slightly toxic orally (LD50 > 1000 mg/l), and irritating to skin and eyes.

**Storage & Handling**

**Standard Packaging:** POLYSTEP P-12A is available in drums, totes, and in bulk quantities.

**Storage Recommendations:** POLYSTEP P-12A should be stored in closed containers and kept in a cool, dry place away from incompatible materials (see Section 10 of the SDS). An elevated storage temperature may be...
This product bulletin has been written in accordance with ACC’s Product Stewardship guidelines.

A Safety Data Sheet is available upon request.

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