



**NUMBER 4507-3** (Supersedes 4507-2)

## **Strodex™ TH-4427 phosphate ester surfactant** *For waterborne architectural coatings*

Strodex TH-4427 is a specialty surfactant based on a neutralized (potassium salt) ethoxylated phosphate ester. Strodex TH-4427 can be used in applications typically requiring a mid HLB surfactant, imparting improved color acceptance, good wetting properties and reduces color float in waterborne latex paints. Strodex TH-4427 surfactant also can impart superior freeze-thaw and heat stability to waterborne acrylic-based latex paints compared to other surfactants and phosphate esters.

Strodex TH-4427 surfactant does not contain any alkyl phenol ethoxylates (APEOs).

### **Typical Properties<sup>(a)</sup>**

Chemical type.....	Phosphate Ester (anionic)
Appearance.....	Clear liquid
Active solids, weight % .....	97 ± 1.0%
Active solids, volume % .....	96.9 ± 1%
Water, weight % .....	3.0 ± 1%
Water, volume % .....	3.1 ± 1%
Gardner Color.....	3 maximum
Viscosity <sup>(b)</sup> , as supplied (cps or mPa•s).....	50 - 200
Cloud Point °F (°C) (neat).....	~70° (21°)
Density, g/mL .....	1.02
Density, lb/gal .....	8.5
pH, 10% aqueous solution .....	3.5 - 4.5
Flash point <sup>(c)</sup> .....	>200°F (93°C)

<sup>(a)</sup>Values are typical properties and are not to be regarded as product specifications.

<sup>(b)</sup>Brookfield RVT viscosity at 25°C (77°F).

<sup>(c)</sup>Tag closed cup

### **Product Benefits**

- Improved freeze-thaw resistance
- Improved heat stability
- Improved substrate wetting
- Improved color acceptance
- Reduces color float
- May improve open time

### **Recommended Use Levels**

In flat, semi-gloss and gloss paints, 2-5 pounds of Strodex TH-4427 surfactant per 100 gallons of finished paint (0.2-0.5%) are recommended.

### **Volatile Organic Compounds (VOCs)**

Strodex TH-4427 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

Strodex™ TH-4427 surfactant does not contain any alkyl phenol ethoxylates (APEOs).

## Chemical Inventories

All components of Strodex TH-4427 surfactant are listed on TSCA and DSL chemical inventory (USA and Canada) as well as EINECS compliant (EU).

## Handling Precautions

Under normal storage conditions (between 32°F / 0°C and 100°F / 37°C in closed packaging), Strodex TH-4427 has good chemical stability and has a recommended shelf-life of two years. However, Strodex TH-4427 can exhibit a low temperature cloud point, where formation of an opaque layer can occur with storage at temperatures less than ~70°F / 21°C. To ensure homogeneity, it is recommended that Strodex TH-4427 be preheated to ~90°F / 32°C or stirred/recirculated before use. Review the Material Safety Data Sheet for additional information.

## Packaging

Strodex TH-4427 is available in 5-gallon pails, 55-gallon drums and Intermediate bulk containers (IBCs). Samples are available in 4-oz. (100ml), 0.5-pint (250ml) and 1 qt. (1 liter) quantities.

## Product Safety

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