



# CHEMGUARD S-760P

## High Performance Anionic Fluorosurfactant

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### Product Description

Chemguard S-760P is a short-chain perfluoro-based anionic fluorosurfactant of the phosphate ester type. It provides surface tensions as low as 16 dynes/cm in water at very low concentrations. It also has excellent dynamic surface tension properties, allowing for rapid attainment of low equilibrium surface tensions. Chemguard S-760P imparts excellent wetting, spreading, leveling, and flow control properties on various types of water-based coatings for architectural paints and stains, concrete coatings, industrial coatings as well as aqueous hydrocarbon surfactant solutions. Chemguard S-760P is low foaming and can provide improved dirt pick-up resistance to exterior paints and interior low gloss paints, sealers, and stains.

### Attributes

- Provides low surface tension at low concentrations
- Excellent for wetting contaminated or difficult to coat surfaces
- Minimizes surface defects such as cratering and fisheyes
- Imparts excellent anti-blocking characteristics
- Provides oil repellency to water-based stains
- Excellent replacement for **FSP, FS-60, and FS-63**
- Composed of short chain C-6 perfluoro telomer
- Low foaming

### Typical Properties<sup>1</sup>

Appearance	Clear, colorless liquid	
Ionic Character	Anionic	
Percent Solids (Actives)	35%	
Diluent Composition	Water/Isopropanol	
Density (25°C)	1.1 g/ml	
Flash Point (Pensky-Martens, closed cup)	31°C	
pH	7.0-8.0	
Freezing Point	-15°C (5°F)	
Aqueous Surface Tension dynes/cm (mN/m), 25°C (77°F)	0.001% Solids	40
	0.01% Solids	18
	0.1% Solids	16
	CMC (critical micelle concentration)	0.014%

<sup>1</sup>Not for specification purposes.

### Typical Applications

Chemguard S-760P is a dilute solution composed of 35% active fluorosurfactant in a water and solvent miscible diluent. Typical uses include leveling and oil repellency for floor polishes, paints and coatings,

adhesives, inks, waxes, caulks, and wood stains. Chemguard S-760P can minimize common surface defects in paints and coatings such as fisheyes, orange peel effects and cratering. Chemguard S-760P is also very effective in improving anti-blocking for the new low/no VOC paints in both semi-gloss and high gloss formulas.

Applications of Chemguard S-760P are generally those in which typical hydrocarbon surfactants are found to be inadequate.

Fluorosurfactants such as Chemguard S-760P are much more chemically stable than typical hydrocarbon surfactants, particularly in the presence of acids, alkalies, or heat.

Recommended application rates depend on the formulation makeup but typical levels of 0.01% to 0.2% are common. The ideal method for determining the proper level is to screen several ranges of concentrations to achieve the desired effect on the surface tension and wetting action.

### **Solubility**

Chemguard S-760P is soluble in water and most organic solvents. The chart below is an example of the solubility of S-760P in many solvent systems. Chemguard can assist in determining solubility in any system.

<b>Solvent</b>	<b>Grams of Chemguard S-760P/ 100 grams of solvent</b>
<b>Distilled Water</b>	<b>&gt;1</b>
<b>Isopropanol</b>	<b>&gt;1</b>
<b>Acetone</b>	<b>0.1</b>
<b>Methyl Alcohol</b>	<b>&gt;2</b>
<b>Hydrocarbon solvents</b>	<b>Insoluble</b>

All values measured at 25°C

### **Storage and Shelf Life**

Chemguard S-760P should be stored between 10°C and 50°C. Some solids begin to separate at temperatures below -15°C (2°F) over time. If frozen or if solids separate, warm to room temperature before use. Freezing and thawing will not affect the properties or performance.

Shelf life is at least five years if stored tightly sealed in the original container at temperatures below 50°C (151°F).

### **Availability**

Chemguard S-760P is available in 1 oz samples, 40 lb. pails, and 440 lb. drums.

### **Health and Safety**

Chemguard does not recommend this product for use in applications involving repeated exposure to skin contact, inhalation, or ingestion.

Chemguard fluorosurfactants are based on telomer synthesis. No PFOS, no PFOA, and no derivatives that decompose to them are used in the manufacturing process. Chemguard S-760P is composed of predominately six carbon (greater than 98%) and shorter perfluoro chains with no known pathway of decomposing to PFOS or PFOA.

Please refer to the material safety data sheet (MSDS) for recommended disposal, handling, and protection information.

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