

## CHEMGUARD S-764P-12A High Performance Anionic Fluorosurfactant

### Description

CHEMGUARD S-764P-12A High Performance Anionic Fluorosurfactant is a short chain, phosphate ester type fluorosurfactant. It is water based and free from volatile organic compounds (VOC). It provides surface tensions as low as 18 dyn/cm in water at very low concentrations.

CHEMGUARD S-764P-12A imparts enhanced wetting, spreading, leveling, anti-blocking, and flow control properties to various types of water-based coatings. It is therefore excellent for architectural paints and stains, concrete coatings, industrial coatings, and aqueous hydrocarbon surfactant solutions.

CHEMGUARD S-764P-12A has excellent dynamic surface tension properties which allow the rapid attainment of low equilibrium surface tensions. It is low foaming and can provide improved dirt pick-up resistance to exterior paints and interior low gloss paints, sealers, and stains.

### Application

CHEMGUARD S-764P-12A High Performance Anionic Fluorosurfactant is a dilute aqueous solution composed of 12% active fluorosurfactant. Typical uses include leveling and oil repellency for floor polishes, paints and coatings, adhesives, inks, waxes, caulks, and wood stains.

CHEMGUARD S-764P-12A can minimize common surface defects in paints and coatings such as fisheyes, orange peel effects, and cratering. It is very effective in improving anti-blocking for the new low-VOC and no-VOC paints in both semi-gloss and high-gloss formulas.

The application of CHEMGUARD S-764P-12A is generally employed when typical hydrocarbon surfactants are inadequate. Fluorosurfactants, such as CHEMGUARD S-764P-12A, are more chemically stable than typical hydrocarbon surfactants, particularly in the presence of acids, alkalis, or heat.

Recommended application rates depend on the formulation makeup, but typical levels of 0.01% to 0.30% are common. To determine the correct application rate level, screen several ranges of concentrations to achieve the desired effect on the surface tension and wetting action.

### Features

CHEMGUARD S-764P-12A High Performance Anionic Fluorosurfactant offers the following features:

- VOC-free
- Chloride-free
- Low foaming
- Imparts excellent anti-blocking characteristics
- Delivers low surface tension at low concentrations
- Effective at wetting difficult to coat surfaces
- Minimizes surface defects such as cratering and fisheyes
- Provides oil repellency to water-based stains

### Solubility

CHEMGUARD S-764P-12A High Performance Anionic Fluorosurfactant is soluble in water and most organic solvents. Deionized water (DI water) or soft water is recommended as dilution of this product in hard water can cause precipitation and should be avoided.

### Storage and Shelf Life

Store the CHEMGUARD S-764P-12A High Performance Anionic Fluorosurfactant between 5 °C and 50 °C (41 °F and 122 °F). If the agent is frozen or if solids separate, warm the agent to room temperature before use. The properties and performance of CHEMGUARD S-764P-12A are not affected by freezing or thawing. Shelf life is two years if the agent is stored and tightly sealed in the original container at temperatures below 50 °C (122 °F).

### Health and Safety

CHEMGUARD S-764P-12A High Performance Anionic Fluorosurfactant is not recommended for use in applications involving repeated exposure to skin contact, inhalation, or ingestion.

CHEMGUARD fluorosurfactants are based on the telomer synthesis process and are composed of chains of six fluorinated carbons. The telomer process produces no perfluorooctane sulfonate (PFOS), and C6 materials do not break down to yield perfluorooctanoic acid (PFOA).

Refer to the safety data sheet (SDS), available at [www.chemguard.com](http://www.chemguard.com), for recommended disposal, handling, and protection information.

## Typical Properties

<u>Property</u>	<u>Description</u>
Appearance .....	Clear to light yellow liquid
Ionic Character .....	Anionic
Percent Actives .....	12%
Diluent Composition .....	Water, bis (2-(2-methoxyethoxy)ethyl) ether
Density 25 °C (77 °F).....	1.1 g/ml
pH.....	6.0 - 9.0
Flash Point.....	> 95 °C (> 203 °F) (Pensky-Martens, closed cup)
Freezing Point 5 °C (41 °F)	
Aqueous Surface Tension in DI Water, 25 °C (77 °F)	
Actives.....	0.001%      0.01%      0.1%
dyn/cm (mN/m) .....	25            20            18

**Note:** Typical Properties are not for specification purposes.

**Note:** The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement. CHEMGUARD and the product names listed in this material are marks and/or registered marks. Unauthorized use is strictly prohibited.