

AEROSOL® NPES 930P surfactant

Type: Anionic

Chemical: Ammonium Salt of Sulfated

Nonylphenoxy poly (Ethyleneoxy) Ethanol

Molecular Formula: C₃₃H₆₃NO₁₃S

Molecular Weight: 713

EPA Status: Exempt 40 CFR 180.1001 (d)

The versatile AEROSOL NPES 930P surfactant can be effectively used as the sole emulsifier in the preparation of a wide variety of latexes—

- Acrylic Latex
- Vinyl Acetate Latex
- Vinyl Acetate/Acrylic Latex
- Styrene/Acrylic Latex
- Zinc-Crosslinking Floor Finish Latex

Latex systems produced with low usage levels of AEROSOL NPES 930P surfactant exhibit the following properties:

- Extremely low levels of coagulum
- Fine particle size
- Excellent mechanical stability
- Cation tolerance
- Excellent freeze-thaw stability
- Superior properties in latex films
 - High optical clarity
 - Uniformity in appearance
 - Improved water-spot resistance

Physical and Chemical Properties

Appearance at 25°C (77°F)	Clear, yellow liquid
Active solids, % by weight (MW = 713)	30.0-32.0
Moisture, % by weight, maximum	70
pH (10% Solution)	7.0-7.5
Color, APHA, as is, maximum	150
Iron, ppm, maximum	5
Specific gravity, 25°C	~1.04
Density, lb/gal, 25°C	~8.7
Viscosity, cps, 25°C	~90
Flash point, °F	>200
Gel point, °F	<55 (12.8°C)

Solubility

In polar organic solvents	Insoluble
In nonpolar organic solvents	Insoluble
In water	Complete

Electrolyte Tolerance

Calcium Tolerance	
Concentration, % solids	Calcium Tolerance ppm
0.50	>2250

Surface Active Properties

Critical Micelle Concentration (CMC), % by weight	0.02
Surface Tension at CMC, dynes/cm	31
Ross Miles Foam Test, ASTM D-1173, 0.5% solution, 25°C	
Initial foam volume, mL	270
Foam Volume after 15 minutes, mL	125
Wetting (Draves Test)	
Draves Sinking Time in seconds at 25±1°C	
% Concentration	1.0 0.5 0.1
Time in seconds	55.2 73 199.5

EPA Status¹

Under the provisions of 40 CFR 180.1001 (d) of the Pesticides Chemicals Regulations, AEROSOL NPES 930P surfactant is exempted from the requirements of a tolerance when used in accordance with good agricultural practice as an inert ingredient of pesticide formulations applied to growing crops.

¹ 21 CFR 182.99 Adjuvants for Pesticide Chemicals—Adjuvants, identified and used in accordance with 40 CFR 180.1001 (c) and (d), which are added to pesticide use dilutions by a grower or applicator prior to application to the raw agricultural commodity, are exempt from the requirement of tolerance.

Health And Safety Information

Before handling this material, read the corresponding Cytec Industries Inc. Material Safety Data Sheet for safety, health and environmental data.

The acute oral (rat) LD₅₀ for this product is greater than 10 g/kg. Direct dermal contact with the liquid

may cause severe irritation including swelling, itching and painful burning. Direct eye contact with the liquid may cause severe irritation including inflammation of the outer eye and painful burning. Inhalation or overexposure to the mist may cause irritation of the eyes, nose and throat.

Storage And Handling

Solutions of AEROSOL NPES 930P may be stored and used in a wide variety of containers or reaction vessels. Stainless steel, aluminum and Monel are recommended for reaction and storage vessels; glass and rubber are suitable lining materials. Some of the sprayed resinous coatings are satisfactory in stationary tanks in which the coating can be built up more heavily than is customary in drums. In permanent installations, however, the added expense of aluminum, stainless steel or clad-steel frequently is justified.

The efficacy of AEROSOL NPES 930P surfactant is not impaired by freezing and thawing. However, if a freezethaw occurs, it is recommended that the entire contents of the container be agitated prior to use.

TSCA Information

This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C.

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