



Product Bulletin

Product Name	STEPAN[®] PEARL 4
Chemical Description	Anionic/Ester/Nonionic Blend
CAS Registry No.	3088-31-1, 627-83-8, 68140-00-1, 9002-92-0
INCI Name	Sodium Laureth Sulfate/Glycol Distearate/Cocamide MEA/Laureth-12
Applications	<p>STEPAN PEARL 4 is a special blend which enables the formulator to incorporate a pearlescent appearance into shampoos, bubble baths, handsoaps, and other personal care products without additional heating or extended processing time.</p> <p>The unique emulsifier package in STEPAN PEARL 4 produces excellent pearlescence through cold blending. This eliminates the need for external heating such as with mono and di-stearates and allows the formulator to produce a product at ambient temperatures. As a result, the formulator benefits from direct energy savings as well as quicker batch cycling.</p> <p>It is recommended that STEPAN PEARL 4 be incorporated into alcohol sulfate or alcohol ethoxylate systems. Common use levels of 1% to 5%, depending on the desired intensity of pearlescence, are recommended. Typically, 2.5% to 3% will achieve an aesthetically acceptable pearl.</p>
Typical Properties	Appearance at 25°C..... White, pearlescent cream Solids, % 46.5 pH, 10% aqueous dispersion 7.0 Sodium Chloride, % 2.0 Viscosity, cps at 25°C 6000 Density, g/ml (lbs/U.S. gal)..... 1.02 (8.5) Freeze Point, °C (°F)..... 4 (40) Pour Point, °C (°F) 7 (45) Flash Point (PMCC), °C (°F) >94 (>201) RVOC, U.S. EPA, % 0
Storage & Handling	<p>Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling STEPAN PEARL 4. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.</p> <p>It is recommended that STEPAN PEARL 4 be stored in sealed containers and kept at temperatures between 40°F (4.5°C) and 110°F (43.3°C). Avoid overheating or freezing.</p> <p>Standard Packaging: STEPAN PEARL 4 is available in 55 gallon drums (450 lb, 204 kg).</p>
Clearances	<p>All components of STEPAN PEARL 4 are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: United States (TSCA 3088-31-1, 627-83-8, 68140-00-1, 9002-92-0), Europe (EINECS 221-416-0, 268-770-2, 211-014-3), Canada (DSL 3088-31-1, 627-83-8, 68140-00-1, 9002-92-0), Australia (AICS 3088-31-1, 627-83-8, 68140-00-1, 9002-92-0), Philippines (PICCS 3088-31-1, 627-83-8, 68140-00-1, 9002-92-0), Japan (ENCS 2-1682, 2-827, 2-2492x, 7-97) and China (ENCSC 3088-31-1, 627-83-8, 68140-00-1, 9002-92-0).</p> <p>AMPHOSOL[®], STEOL[®] and STEPAN[®] are registered trademarks of Stepan Company.</p>



Formulation

PEARLIZED BODY WASH

Ingredients

	Wt, % (as is)	Function
1. D.I. Water	q.s. to 100	Carrier
2. STEOL® CS-230	46.2	Primary Surfactant, Cleansing Agt
3. AMPHOSOL® CA	10.0	Secondary Surfactant
4. AMPHOSOL 1C	3.0	Conditioning Agt, Viscosity Adjuster
5. STEPAN PEARL 4	3.0	Pearlescent Agent
6. Versene 100 (Dow) Tetrasodium EDTA	0.2	Chelating Agent
7. Citric Acid	0.2	Buffer
8. Preservative	q.s.	Preservative
9. Citric Acid or Sodium Hydroxide	q.s. to pH	pH Adjuster
10. Sodium Chloride	q.s. to desired viscosity	Viscosity Adjuster

Mixing Procedure:

Charge STEOL CS-230 and water to vessel. With mixing, add the remaining ingredients. Adjust pH and viscosity.

Physical Properties:

Appearance at 25°C White, pearlescent liquid
 pH (as is) 6.5 – 7.0
 Viscosity at 25°C 4000 – 6000 cps

Additional
Safety
Information

A Material Safety Data Sheet is available upon request.

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