

Product Bulletin

Product Name	STEPAN-MILD® PCL
Chemical Structure & Description	$\text{R} - \begin{array}{c} \text{H} \quad \text{O} \\ \quad \\ \text{C} - \text{C} - \text{OCH}_3 \\ \\ \text{SO}_3\text{Na} \end{array} \quad \text{and} \quad \text{R} - \begin{array}{c} \text{H} \quad \text{O} \\ \quad \\ \text{C} - \text{C} - \text{ONa} \\ \\ \text{SO}_3\text{Na} \end{array}$ $\text{And} \quad \text{CH}_3 (\text{CH}_2)_{10} \text{CH}_2\text{O} \overset{\text{O}}{\parallel} \text{CCH}_2\text{SO}_3 \text{Na}$
CAS Registry Nos.	149458-07-1 and 1847-58-1
INCI Name	Sodium Methyl 2-Sulfolaurate and Disodium 2-Sulfolaurate and Sodium Lauryl Sulfoacetate
Applications	A mild anionic surfactant blend that generates high foam with good viscosity building characteristics and skin after-feel in formulated products. It is suitable for shampoo, facial cleanser, body wash, bubble bath, and liquid hand soap.
Typical Properties	<p>Appearance at 25 °C..... Clear, Yellow liquid</p> <p>pH, 10% aqueous at 25 °C..... 6.0</p> <p>Actives, % 23</p> <p>Solids, % by Wt..... 30</p> <p>Freeze Point, °C (°F)..... -8 (18)</p> <p>Cloud Point, as is °C (°F) 11 (52)</p> <p>Color, % Transmittance at 425nm..... 80</p> <p>Density at 25 °C, g/ml (lbs/U.S. gal) 1.07 (8.90)</p> <p>Viscosity at 25 °C, cps 1,400</p> <p>Flash Point, PMCC, °C (°F)..... >94 (>201)</p> <p>RVOC, U.S. EPA, % (Methanol) 0.125 max.</p> <p>Preservative..... Methylchloroisothiazolinone/Methylisothiazolinone</p>
Environmental Effects	The components that for this product are readily biodegradable. Additional information available upon request.
Storage & Handling	<p>Normal safety precautions (i.e., gloves and safety glasses) should be employed when handling STEPAN-MILD PCL. Contact with eyes and prolonged contact with the skin should be avoided.</p> <p>It is recommended that STEPAN-MILD PCL be stored in sealed containers. Store and handle in equipment normally used for detergents. Recommended storage temperature is 60-100 °F (15-38 °C). Viscosity of product will increase significantly as bulk temperature falls below 60 °F (15 °C). Material of construction of storage tank should be 316 stainless steel (or fiberglass with DION 382 liner). Transfer pumps should be Viking stainless steel (or other similar gear pump) with internal pressure relief capabilities. The tank and pump should be grounded. If material is frozen, mild heat (80-100 °F (27-38 °C) and agitation is required to ensure material is homogenous before use. Keep the product between a pH of 4 and 9 or hydrolysis will occur.</p> <p><u>Standard Packaging:</u> STEPAN-MILD PCL is available in 55-gallon drums (net weight 450 lb/204 kg).</p> <p><u>Workplace Exposure:</u> Occupational exposure can occur primarily through skin contact or via inhalation of vapors and mists. Engineering controls, personal protective equipment, and other workplace practices should be used to control these exposures.</p>



Clearances

All components of STEPAN-MILD PCL are listed in the following countries: United States (TSCA), Canada (DSL), Australia (AICS), Europe (EINECS), and Japan (ENCS).

It is the responsibility of the formulator to review the chemical control regulations for each country where the end product is intended to be sold or used.

Formulation

Scrubbing Body Shower Gel

Deep cleansing, scrubbing body gel exfoliates the skin and leaves it clean, radiant and velvety to the touch.
Formulation #1012

<u>Ingredients</u>	<u>Wt. % (as is)</u>	<u>Function</u>
1. Deionized Water	q.s. to 100.00	Carrier
2. Keltron RD (Kelco) Xanthan Gum	0.75	Thickener
3. Glycerin (Dow)	1.50	Humectant
4. STEPAN-MILD PCL	55.00	Primary Surfactant
5. AMPHOSOL® HCG	9.60	Secondary Surfactant
6. Merquat 550 (Calgon) Polyquaternium-7	3.00	Conditioning Agent
7. Lipo APS 40/60 (Lipo Chemical) Crushed Apricot Seed	0.20	Exfoliating Agent
8. Lipo WSF 35/60 (Lipo Chemical) Walnut Shell Powder	0.20	Exfoliating Agent
9. Sodium Chloride	q.s.	Viscosity Modifier
10. Sodium Hydroxide, 50% solution	q.s.	pH Adjuster
11. Citric Acid, 50% solution	q.s.	pH Adjuster
12. Fragrance, Dye, Preservative	q.s.	Additives

Mixing Procedure:

Charge vessel with Deionized Water. Start agitation. Slowly sprinkle in Keltron R.D. Mix until completely dispersed. Add Glycerin, STEPAN-MILD PCL, AMPHOSOL HCG, Crushed Apricot Seed and Walnut Shell Powder. Mix until homogeneous. Adjust pH to 5.0-6.0 with Sodium Hydroxide or Citric Acid. Add Preservative, Fragrance and Dye.

Physical Properties:

Appearance at 25 °C..... Translucent, thick liquid
pH (as is)..... 5.0 – 6.0
Viscosity at 25 °C, cps 10,000 – 12,000

Product
Stewardship

This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.

Additional
Safety
Information

A Safety Data Sheet is available upon request.



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