

## Product Bulletin

Product Name	<b>STEPAN-MILD® PCL-BA</b>																										
Chemical Structure	$  \begin{array}{ccc}  \begin{array}{c} \text{H} \quad \text{O} \\   \quad    \\ \text{R} - \text{C} - \text{C} - \text{OCH}_3 \\   \\ \text{SO}_3\text{Na} \end{array} & \text{and} & \begin{array}{c} \text{H} \quad \text{O} \\   \quad    \\ \text{R} - \text{C} - \text{C} - \text{ONa} \\   \\ \text{SO}_3\text{Na} \end{array} \\  \\ \\  \text{and} \begin{array}{c} \text{O} \\    \\ \text{CH}_3 (\text{CH}_2)_{10} \text{CH}_2 \text{OCCH}_2 \text{SO}_3 \text{Na} \end{array}  \end{array}  $																										
CAS Registry Numbers	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	<table border="0"> <tr> <td>Appearance at 25°C.....</td> <td>Clear, Yellow liquid</td> </tr> <tr> <td>pH, 10% aqueous.....</td> <td>5.8</td> </tr> <tr> <td>Actives, % .....</td> <td>23</td> </tr> <tr> <td>Solids, % (2 hours at 105°C).....</td> <td>30</td> </tr> <tr> <td>Sodium Chloride, % .....</td> <td>2</td> </tr> <tr> <td>Freeze Point, °C (°F).....</td> <td>-8 (18)</td> </tr> <tr> <td>Cloud Point, as is °C (°F) .....</td> <td>11 (52)</td> </tr> <tr> <td>Color, % Transmittance at 425 nm .....</td> <td>80</td> </tr> <tr> <td>Density at 25°C, g/ml (lbs/U.S. gal) .....</td> <td>1.07 (8.90)</td> </tr> <tr> <td>Viscosity at 25°C, LV, spindle #3 at 6 rpm, 60 seconds, cps .....</td> <td>1,000</td> </tr> <tr> <td>Flash Point, PMCC, °C (°F) .....</td> <td>&gt;94 (&gt;201)</td> </tr> <tr> <td>RVOC, U.S. EPA, % (Methanol) .....</td> <td>0.125 max.</td> </tr> <tr> <td>Preservative.....</td> <td>Benzoic Acid</td> </tr> </table>	Appearance at 25°C.....	Clear, Yellow liquid	pH, 10% aqueous.....	5.8	Actives, % .....	23	Solids, % (2 hours at 105°C).....	30	Sodium Chloride, % .....	2	Freeze Point, °C (°F).....	-8 (18)	Cloud Point, as is °C (°F) .....	11 (52)	Color, % Transmittance at 425 nm .....	80	Density at 25°C, g/ml (lbs/U.S. gal) .....	1.07 (8.90)	Viscosity at 25°C, LV, spindle #3 at 6 rpm, 60 seconds, cps .....	1,000	Flash Point, PMCC, °C (°F) .....	>94 (>201)	RVOC, U.S. EPA, % (Methanol) .....	0.125 max.	Preservative.....	Benzoic Acid
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RVOC, U.S. EPA, % (Methanol) .....	0.125 max.																										
Preservative.....	Benzoic Acid																										
Environmental Effects	STEPAN-MILD PCL-BA is expected to be readily biodegradable. Additional information available upon request.																										
Health Effects	STEPAN-MILD PCL-BA is expected to be slightly toxic orally (LD <sub>50</sub> > 2000 mg/kg) and moderately irritating to the skin and eyes when tested as sold.																										
Storage & Handling	<p>Normal safety precautions (e.g., gloves and safety glasses) should be employed when handling STEPAN-MILD PCL-BA. Contact with eyes, nose or prolonged contact with the skin should be avoided. Wash thoroughly after handling STEPAN-MILD PCL-BA. See SDS for more information.</p> <p>Phase separation may occur if material is exposed to cold temperature and/or is frozen. Mild heat (30°C-40°C/86°F-104°F) and agitation is recommended to ensure material is homogenous before use. Product may remain hazy after reconstitution, but haze has not been found to impact the product performance.</p>																										



Standard Packaging: STEPAN-MILD PCL-BA is available in drums, totes and bulk quantities..

Non-Bulk Storage Recommendations: It is recommended that STEPAN-MILD PCL-BA be stored in sealed containers. Store and handle in equipment normally used for detergents. Recommended storage temperature is 60-100°F (15-38°C).

Bulk Storage Recommendations: 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.

Workplace Exposure

Occupational exposure can occur primarily through skin contact or via inhalation of vapors and mists. Engineering controls, personal protective equipment, and other workplace safety practices should be used to control these exposures. See SDS for more information.

Clearances

The international inventories (country clearances) of STEPAN-MILD PCL-BA can be found in Section 15 of the Safety Data Sheet (SDS). 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. If you have any further questions regarding inventories, please contact North America Technical Service at [techserv@stepan.com](mailto:techserv@stepan.com).

Product Stewardship

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

Additional Safety Information

A Safety Data Sheet (SDS) is available upon request.



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