

STEOL[®] CS-330 HP

Product Name	CH ₃ (CH ₂) ₁₀ CH ₂ (OCH ₂ CH ₂) ₃ OSO ₃ Na
Chemical Structure	
CAS Registry Number	9004-82-4
INCI Name	Sodium Laureth Sulfate
Applications	<p>STEOL CS-330 HP is a Preservative- Free Sodium Lauryl Ether Sulfate derived from fatty alcohols, ethoxylated to an average of 3 moles, and sulfated via Stepan's continuous SO₃ process.</p> <p>STEOL CS-330 HP is not only milder than sodium lauryl, 1 mole or 2 mole laureth sulfates but also exhibits greater salt tolerance and solubilizing properties. Its low irritation properties make it useful for mild cleansing products, such as baby products.</p> <p>STEOL CS-330 HP offers excellent skin compatibility, along with good foam and viscosity characteristics, all important considerations in shampoo, hand soap, and bath product formulations.</p> <p>STEOL CS-330 HP based products can be readily thickened with salts, betaines, and amides, with the latter two also offering foam enrichment. By modifying the additive levels, formulas exhibiting a variety of performance and physical attributes can be developed. Because STEOL CS-330 HP is compatible with commonly used opacifiers and pearling agents, the formulator is afforded flexibility in developing the desired product appearance.</p>
Typical Properties	<p>Appearance at 25°C..... Clear to slightly hazy liquid</p> <p>Actives (MW 422), %..... 28.5</p> <p>Unsulfated Alcohol, %..... 0.5</p> <p>Free Alkalinity %, as NaOH 0.2</p> <p>Cloud Point (as is), °C (°F)..... 2 (36)</p> <p>Sodium Chloride, %..... 0.03</p> <p>Sodium Sulfate, %..... 0.2</p> <p>Viscosity, cps at 25°C..... 100</p> <p>Freeze Point, °C (°F)..... -2 (29)</p> <p>Pour Point, °C (°F)..... 1 (34)</p> <p>pH, 10% Aqueous..... 11.5</p> <p>Flash Point (PMCC), °C (°F)..... >94 (>201)</p> <p>Color % Transmittance..... 94</p> <p>Critical Micelle Concentration, mg/L..... 449</p> <p>Boiling Point, °C (°F) 100 (212)</p> <p>Density at 25°C, g/ml (lbs/U.S. gal)..... 1.03 (8.6)</p> <p>RVOC, U.S. EPA, %..... 0</p> <p>Preservative..... Not required</p>
Environmental Effects	Product is readily biodegradable. A detailed biodegradation statement is available upon request.
Health Effects	STEOL CS-330 HP has not been tested, however, due to high alkalinity it is anticipated that the product will be corrosive to skin and eye when used "as is". STEOL CS-330 HP is non-toxic orally (LD ₅₀ is >5 g/kg) and causes mild to moderate skin and moderate eye irritation at 10% active when tested under neutral pH conditions.



Storage & Handling

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling STEOL CS-330 HP. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

It is recommended that STEOL CS-330 HP be stored in sealed containers and kept at temperatures above 45°F (7°C). Avoid overheating or freezing. If material is frozen, mild heat and agitation are recommended to ensure the material is homogeneous before use.

Bulk Storage Information: Tanks made of 316 stainless steel or fiberglass with an Atlac 382 corrosion liner are recommended. Positive displacement gear pumps and piping should be 316 stainless steel. Recommended storage for bulk tanks is 90-100°F (32-38°C).

Standard Packaging: STEOL CS-330 HP is available in bulk and tote (net weight 2200 lb/998 kg) quantities.

Clearances

All components of STEOL CS-330 HP are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: United States (TSCA 9004-82-4), Canada (DSL 9004-82-4), Australia (AICS 9004-82-4), Korea (ECL Serial No. KE-32427), Japan (ENCS 7-155), China (IECSC 9004-82-4), New Zealand (NZIoC 9004-82-4) and Philippines (PICCS 9004-82-4).

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.

STEOL CS-330 HP is approved for use as inert ingredient under U.S. EPA 40 CFR 180.910 and 180.930.

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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