



## Product Bulletin

Product Name	<b>ALPHA-STEP<sup>®</sup> HWC</b>
Chemical Description	Anionic/Amphoteric/Nonionic/Cationic Blend
CAS Registry No.	149458-07-1, 61789-40-0, 142-78-9, 112-02-7, 9005-08-7
INCI Name	Sodium Methyl 2-Sulfolaurate (and) Disodium 2-Sulfolaurate (and) Cocamidopropyl Betaine (and) Lauramide MEA (and) Cetrimonium Chloride (and) PEG-150 Distearate (and) Methylchloroisothiazolinone (and) Methylisothiazolinone
Applications	ALPHA-STEP HWC is a mild liquid wash concentrate that can be used in shampoos, body washes, facial washes, and hand washes. It is suitable for both pump (no stringing) and foamer (low viscosity) applicators, from economy to premium. Advantages include excellent skin after-feel and creamy, stable foam.
Typical Properties	Appearance at 25°C..... Clear liquid pH, as is ..... 5.5 Solids, % by Wt..... 40 Pour Point, °C (°F) ..... .6.3 (44) Color, Gardner ..... 2 Density, g/ml (lbs/U.S. gal)..... . 8.6 Viscosity at 25°C, cps ..... .7000 Flash Point, method, °C (°F) ..... >94 (>201) Preservative ..... Methylchloroisothiazolinone/Methylisothiazolinone
Biodegradability	Product is biodegradable. Additional information available upon request.
Toxicity	Available data of major components deem this product slightly toxic orally (LD <sub>50</sub> >5gm/kg) and minimally irritating to skin at 10% active.
Storage & Handling	Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling ALPHA-STEP HWC. Contact with the eyes and prolonged contact with the skin should be avoided.  It is recommended that ALPHA-STEP HWC be stored in sealed containers at temperatures between 40°F (4°C) and 110°F (43°C). Avoid overheating or freezing. If material is frozen, mild heat and agitation are recommended to ensure the material is homogeneous before use.  Standard Packaging: ALPHA-STEP HWC is available in 55-gallon drums (net weight 450 lb/204 kg).
Clearances	All components of ALPHA-STEP HWC are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: US (TSCA 149458-07-1, 61789-40-0, 142-78-9, 112-02-7 and 9005-08-7); Canada (DSL 149458-07-1, 61789-40-0, 142-78-9, 112-02-7 and 9005-08-7); Europe (EINECS 288-224-7 & 286-085-7, 263-058-8, 205-560-1, 203-928-6 and CAS 9005-08-7 is polymer exempt); Australia (AICS 149458-07-1, 61789-40-0, 142-78-9, 112-02-7 and 9005-08-7) and Japan (ENCS 2-3065 & 2-1655, 2-1290, 2-827, 2-184 and 2-647).  ALPHA-STEP HWC is Kosher Certified.  ALPHA-STEP <sup>®</sup> and AMPHOSOL <sup>®</sup> are registered trademarks of Stepan Company.



Formulations

**Hand Wash (Formulation # 977)**

This mild hand wash is non-stringing and leaves a soft and silky after-feel on the skin.

<u>Ingredients</u>	<u>Wt. % (as is)</u>	<u>Function</u>
1. ALPHA-STEP HWC	35.0	Cleansing Agent, Surfactant
2. D.I. Water	q.s. to 100.0	Solvent, Carrier
3. Fragrance, Dye, Preservative	q.s.	Additives
4. Citric Acid, 50%	q.s.	pH Adjuster
5. Sodium Hydroxide, 50%	q.s.	pH Adjuster
6. Sodium Chloride	q.s.	Viscosity Adjuster

**Mixing Procedure:**

Into a suitable vessel equipped with mixing capabilities, combine above ingredients. Mix until homogeneous. Adjust to desired pH with Citric Acid or Sodium Hydroxide. Adjust viscosity, if desired, with Sodium Chloride.

**Physical Properties:**

Appearance at 25°C .....	Clear liquid
pH, as is .....	5 - 6
Viscosity at 25°C, cps.....	2000

Additional  
Safety  
Information

A Material Safety Data Sheet is available upon request.

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