

Product Bulletin

Product Name

STEPANOL[®] AMV PCK

Chemical Structure

$\text{CH}_3(\text{CH}_2)_{10}\text{CH}_2\text{OSO}_3\text{NH}_4$

CAS Registry No.

68081-96-9

INCI Name

Ammonium Lauryl Sulfate

Applications

STEPANOL AMV PCK is an ammonium lauryl sulfate derived from fatty alcohol sulfated via Stepan's continuous SO_3 process. This process allows the highest reproducibility in finished products because of the consistent quality of the surfactant.

STEPANOL AMV PCK can be used in a variety of personal care formulations and is excellent for acidic shampoo systems. STEPANOL AMV PCK will generate generous foam and is compatible with alkanolamides and amphoterics. STEPANOL AMV PCK will release an ammonia odor when the pH is alkaline.

Typical Properties

Appearance at 30°C Clear to slightly hazy viscous liquid
 Actives, % (MW 297) 28.0
 Unsulfated Material, % 1.0
 Ammonium Chloride, % 0.32
 Ammonium Sulfate, % 0.59
 pH, 10% solution 7.0
 Color, Gardner 1
 Cloud Point (as is), °C (°F) 10 (50)
 Flash Point (PMCC), °C (°F) >94 (>201)
 Freeze Point, °C (°F) 9 (49)
 Pour Point, °C (°F) 12 (53)
 Viscosity, cps at 25°C 5880
 Density, g/ml (lbs/U.S. gal.) 1.01 (8.39)
 Critical Micelle Concentration, g/L 3.36
 RVOC, U.S. EPA, % 0
 Preservative Methylchloroisothiazolinone/Methylisothiazolinone

Biodegradability

Product is biodegradable. Additional information is available upon request.

Toxicity

STEPANOL AMV PCK is slightly toxic orally (LD_{50} is 3 to 5.5 g/kg) and causes moderate to severe irritation to eyes and severe irritation to skin at 10% active.



Storage & Handling

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling STEPANOL AMV PCK. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

It is recommended that STEPANOL AMV PCK be stored in sealed containers and kept at temperatures above 55°F (13°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. Gear pumps and piping should be 316 stainless steel. Recommended storage for bulk tanks is 90-120°F (32-49°C).

Standard Packaging: STEPANOL AMV PCK is available in bulk and 55 gallon drums (net weight 450 lb/204 kg).

Clearances

All components of STEPANOL AMV PCK are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: United States (TSCA 68081-96-9), Australia (AICS 68081-96-9), Canada (DSL 68081-96-9), China (IECSC 68081-96-9), Europe (EINECS 268-364-5), Japan (ENCS 2-1679), Korea (ECL Serial No. KE-32606), New Zealand (NZIoC 68081-96-9), Philippines (PICCS 68081-96-9), and Taiwan (TCSI 68081-96-9).

STEPANOL AMV PCK is available as Kosher Certified.

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.

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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