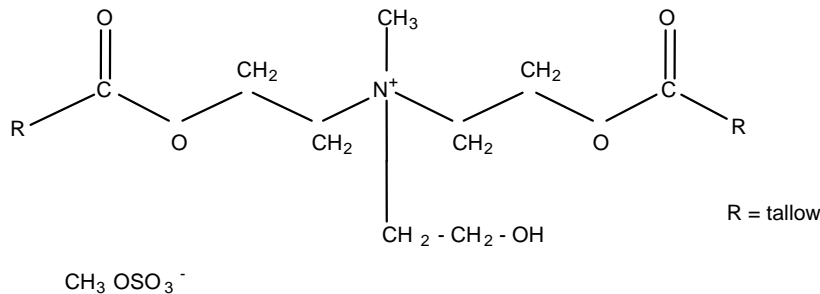


Product Name

STEPANTEX[®] HTS-100

Chemical Structure



Chemical Description

Methyl bis[ethyl (tallowate)] -2- hydroxyethyl ammonium methyl sulfate

CAS Registry No.

Proprietary

Applications

STEPANTEX HTS-100 is a fabric softener quaternary in a nonionic system for the coating of household and commercial fabric softener sheets. It can be used in a full range of coating weights with good storage stability and easy processing. STEPANTEX HTS-100 offers excellent controlled release from the substrate in tumble dryers and a neutral base odor. In addition, STEPANTEX HTS-100 is non-yellowing, provides static reduction, and yields good re-wetting properties.

Typical Properties

Appearance at 25°C	Off-white solid
pH, 5% in water/IPA	3.5
Solids, % by wt.	100
Color, Gardner.....	3 max.
Density, g/ml (lbs/U.S. gal).....	0.96 (8.0)
Pour Point, °C (°F).....	65 (149)
Min. Handling Temp. (MHT), °C (°F).....	67 (152)
Viscosity at MHT, cps.....	240
Flash Point, PMCC, °C (°F).....	>94 (>201)
RVOC, U.S. EPA, %	0

Biodegradability

STEPANTEX HTS-100 is readily biodegradable. Additional information is available upon request.

Storage & Handling

Handle STEPANTEX HTS-100 with care. Contact with the eyes and prolonged contact with the skin should be avoided. Use gloves and safety goggles when handling STEPANTEX HTS-100.

Standard Packaging: STEPANTEX HTS-100 is available in bulk quantities.

STEPANTEX[®] is a registered trademark of Stepan Company.



Storage & Handling

The composition, color and odor of STEPANTEX HTS 100 is susceptible to degradation as a result of exposure to high temperatures, particularly in the presence of air.

It is recommended that STEPANTEX HTS-100 be stored in stainless steel storage tanks of type 304L minimum, 316L is preferred. Also acceptable are Fiber Reinforced Plastic (FRP) with an Atlac 382 type lining. Tanks should be padded with a nitrogen gas blanket and adequately insulated to maintain elevated temperatures. Generally, mixing is recommended to maintain homogeneity, either by a mechanical stirrer or recirculation loop.

Bulk storage facilities should be designed to maintain a minimum product temperature of 67°C (152°F) and a maximum temperature of 78°C (172°F). The recommended length of time for bulk storage is 5 days. Coating temperatures should not exceed 85°C (185°F). Hot water heating provided through No. 316L Stainless Steel heating coils is recommended. Steam heating through coils can also be used.

No. 316L Stainless Steel centrifugal or positive displacement pumps should be used. Piping should be of No. 316L Stainless Steel, Schedule 40 or Steel Kynar lined P.V.F. Rubber hoses lined with Teflon or crosslinked polyethylene and equipped with No. 316L Stainless Steel fittings are recommended for loading and unloading. *Contact with brass, copper, and aluminum components must be strictly avoided.*

Clearances

All components of STEPANTEX HTS-100 are listed in the following countries: U.S.A. (TSCA), Canada (DSL), Europe (EINECS/ELINCS/Polymer/NLP), Australia (AICS).

Additional Safety Information

A Material Safety Data Sheet is available upon request.

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Stepan

Corporate Headquarters
Northfield, Illinois 60093, U.S.A.
847-446-7500 847-501-2100 fax
Website: www.stepan.com

For Technical Service Call: Northfield, IL USA 800-745-7837
Longford Mills, Canada 705-326-7329 • Mexico City, Mexico +52-555-533-1697
Voreppe, France +33-476-505-100 • Bogota, Colombia +57-1-6362808
Stalybridge, United Kingdom +44-141-338-9083
Manila, Philippines +632-891-1708

