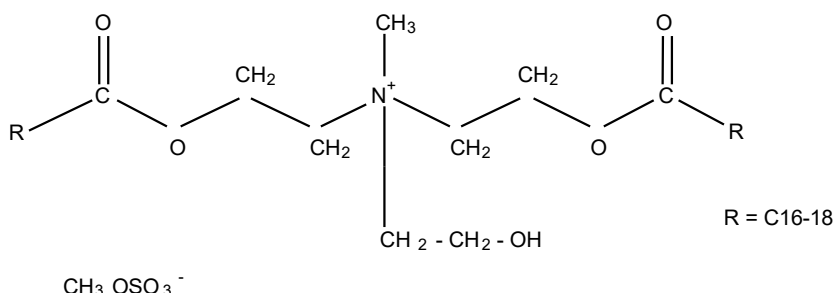


Product Bulletin

Product
Name

STEPANTEX® HTS-100

Chemical
Structure



Chemical
Description

Methyl bis(ethyl C16-18 carboxylate)-2-hydroxyethyl ammonium methyl sulfate

CAS Registry
Number

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 50:50 IPA/Water	3.5
Solids, % by wt.	100
Color (molten), Gardner	3 max.
Density, g/ml (lbs/U.S. gal)	0.96 (8.01)
Pour Point, °C (°F)	65 (149)
Minimum Handling Temperature (MHT), °C (°F)	67 (152)
Flash Point, PMCC, °C (°F)	240
RVOC, U.S. EPA, %	0

Environmental
Effects

STEPANTEX HTS-100 is readily biodegradable. A detailed biodegradability statement is available upon request.

Storage &
Handling

Normal safety precautions (e.g., gloves and safety goggles) should be employed when handling STEPANTEX HTS-100. Contact with eyes, nose or prolonged contact with skin should be avoided. Wash thoroughly after handling STEPANTEX HTS-100. See SDS for more information.

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

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.



Non-Bulk Storage Recommendations: STEPANTEX HTS-100 should be stored in closed containers and kept in a cool, dry place away from incompatible materials (see Section 10 of the SDS). If material is frozen it should be heated gently and stirred to ensure it is homogeneous prior to use.

Bulk Storage Recommendations: 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.*

**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 STEPANTEX HTS-100 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.

**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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