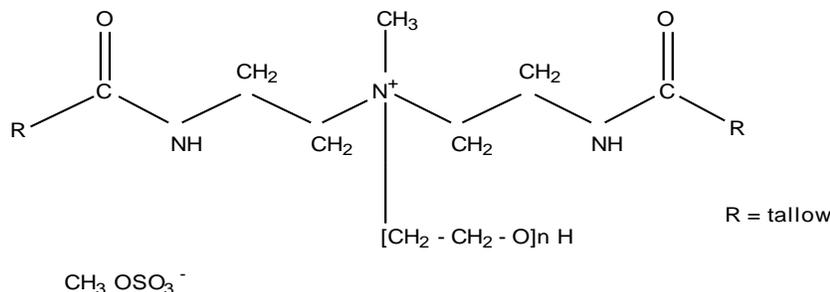


Product Bulletin

Product Name
Chemical Structure

ACCOSOFT® 501



Chemical Description

Methyl bis(tallowamido ethyl) -2- hydroxyethyl ammonium methyl sulfate

CAS Registry No.

68410-69-5

Applications

ACCOSOFT 501 is a fabric softener quaternary for use in household and commercial products. It can be used in a full range of dispersion concentrations with excellent storage stability and easy formulation. ACCOSOFT 501 will produce 2.5 - 25% solids dispersions with a minimum of electrolyte. These dispersions exhibit instant cold water dispersibility. ACCOSOFT 501 offers good rewet and is non-yellowing.

Typical Properties

Appearance at 25°C	Opaque fluid
pH, 10% in 50:50 water/IPA	6
Solids, % by wt.	88
Color, Gardner	4 max.
Density, g/ml (lbs/U.S. gal)	0.97 (8.1)
Pour Point, °C (°F)	20 (68)
Minimum Handling Temp. (MHT), °C (°F)	27 (80)
Viscosity at MHT, cps	1400
Flash Point, PMCC, °C (°F)	24 (76)
RVOC, U.S. EPA, % (Isopropanol)	12

Environmental Effects

Product is biodegradable. A detailed biodegradability statement is available upon request.

Health Effects

ACCOSOFT 501 is practically non-toxic orally ($\text{LD}_{50} > 20 \text{ g/kg}$) and causes no eye irritation 21 days post dosing. It is minimally irritating to skin and is not a skin sensitizer.

Storage & Handling

Handle ACCOSOFT 501 with care; use away from sparks and open flame. Use in a well-ventilated area. Contact with the eyes and prolonged contact with the skin should be avoided. Use gloves and safety goggles when handling ACCOSOFT 501.

Standard Packaging: ACCOSOFT 501 is available in drums or bulk quantities.



Storage & Handling

The color and odor of ACCOSOFT fabric softener quaternaries are susceptible to degradation as a result of exposure to high temperatures, particularly in the presence of air. ACCOSOFT 501 contains sodium bisulfite as an antioxidant to preserve color. Successful long-term storage, in liquid form, depends on maintaining a sodium bisulfite level of 200-1000 ppm. Methods for monitoring are available from Stepan Company.

It is recommended that ACCOSOFT 501 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 equipped with conservation vents and flame arrestors. Tanks should be 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 27°C (80°F) and a maximum temperature of 52°C (125°F). Hot water heating provided through No. 316L Stainless Steel heating coils is recommended. Steam heating through coils can 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 ACCOSOFT 501 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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