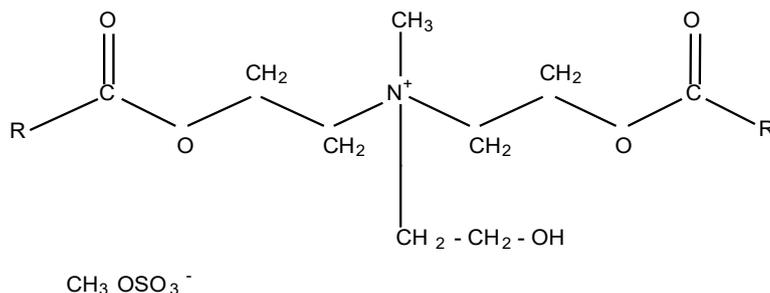


Product Name

STEPANTEX® DC 90

Chemical Structure



Chemical Description

Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulphate quaternized

EC Number

931-216-1

INCI Name

Dirapeseedoylethyl Hydroxyethylmonium Methosulfate

Applications

STEPANTEX DC 90 is a cationic surfactant commonly named “esterquat”. It is a vegetable version based on rapeseed. It is ideally suited for the formulation of household and industrial fabric softeners from 5% fluid to 15% fluid active concentrations.

STEPANTEX DC 90 can also be used in other applications such as polishing compounds, textile auxiliaries, leather conditioners, water repellents in car care, hair conditioner formulations.

Advantages

Good softening, good antistatic properties, good rewetting properties, and provides easier ironing and drying.

Typical Properties

Appearance at 20°C	Clear liquid
pH, 5% in water/IPA (50/50).....	3
Solids, %.....	90
Active Matter (meq/g)lbs/U.S. gal)	1.01
Density at 40°C, g/cm ³	0.960
Flash Point, SETA, °C (°F).....	>94 (>201)
Viscosity at 20°C, cps.....	25
Viscosity at 60°C, cps.....	15
Density at 25°C, g/mL (lbs/U.S. gal)	1.03 (8.6)
HLB.....	29.8
RVOC, U.S. EPA, (IPA) %	25
Preservative.....	Sodium Benzoate

Preservative Compatibility

Although softener formulations based on STEPANTEX DC 90 generally do not need any protection if produced under ideal conditions, it may be suitable to add preservatives in ready to use or in concentrates that will be diluted by the consumer. Preservatives compatible with cationic and stable and effective at pH between 2.5 and 4.5 should be compatible with STEPANTEX DC 90.



Environmental Effects

STEPANTEX DC 90 complies with the biodegradability criteria as laid down in regulation (EC) No. 648/2004 on detergents.

Storage & Handling

It is recommended that STEPANTEX DC 90 be stored in sealed containers kept in a well-ventilated area away from sparks, fire, and open flame. Avoid overheating or freezing. Equipment should be grounded when transferring or using material. Normal safety precautions (e.g., gloves and safety goggles) should be employed when handling STEPANTEX DC 90. Contact with eyes, nose or prolonged contact with skin should be avoided. Wash thoroughly after handling STEPANTEX DC 90. See SDS for more information.

Standard Packaging: STEPANTEX DC 90 is available in drums, intermediate bulk containers and in bulk quantities.

Non-Bulk Storage Recommendations: It is recommended that drums of STEPANTEX DC 90 be stored in sealed containers at temperatures between 10°C (50°F) and 40°C (104°F). Avoid heating to temperature higher than 50°C (122°F) and avoid local overheating. The color and odor of STEPANTEX DC 90 are susceptible to degradation as a result of exposure to high temperature (> 50°C / >122°F) over extended periods of time (greater than several days), particularly in the presence of air.

Bulk Storage Recommendations: it is recommended that STEPANTEX DC 90 be stored in stainless steel storage tanks of 316L stainless steel. Tanks should be padded with a nitrogen gas blanket and equipped with conservation vent and flame arrestors. Tanks should be adequately insulated to maintain homogeneity, either by a mechanical stirrer or recirculation loop. Bulk storage facilities should be designed to maintain a minimum product temperature of 25°C (77°F) and a maximum temperature of 50°C (122°F).

Clearances

All components of STEPANTEX DC 90 are listed in the following countries.

Please be informed that it is the responsibility of the importer and end user to review and comply with the chemical control regulations for each country.

Country and inventory name	On inventory (Yes/No)*
Australia (AICS)	Yes
Canada (DSL/NDSL)	Yes for DSL / No for NDSL
China (IECSC)	Yes
Europe (REACH)	REACH registered – Record number 01-2119472309-33-0004
Japan (ENCS)	No
Korea (ECL)	Yes
New Zealand (NZIoC)	Yes
Philippines (PICCS)	No
Taiwan (TCSI)	Yes
USA (TSCA)	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Product Stewardship Additional Safety Information

This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.

A Safety Data Sheet is available upon request.

For Additional Assistance

For applications or product handling assistance, call our Technical Service Department at (33) 4-76-50-5160. For ordering assistance, call our Customer Service Department at (33) 4-76-50-5100.

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