



Octosol 571

Cationic Surfactant

CHEMICAL DESCRIPTION:

Lauryl trimethyl ammonium chloride
(CAS # 112-00-5)

PHYSICAL FORM:

Solution in water and isopropyl alcohol

PRODUCT SPECIFICATIONS

METHODS

Solids, %	49.0 - 51.0	WI-SCC-040
pH	7.0 - 9.0	WI-PHC-010
Color, Gardner	0 - 1	WI-CDC-220
Solubility	Complete in water	WI-STC-210
Alcohol content, %	25.0 - 30.0	Chromatography

PRODUCT DESCRIPTION:

Octosol 571 is a cationic surface active agent in a solution of water and isopropyl alcohol. It is recommended as an emulsifier in cationic or blended ionic emulsion systems. Its use in latex compounds as a "sensitizer" is due to the fact that quaternary ammonium surfactants are not compatible with the anionic latex stabilizers. Some latex foams must be gelled before curing in order to mould or emboss while wet, or to prevent loss of gauge due to cell collapse during the cure interval.

It is thought that the cationic surfactant, Octosol 571, destabilizes a latex compound by complexing with the anionic emulsifiers/stabilizers present in such formulations, or by dissipating the negative charges on the latex particles. This allows the various gelling agents such as acetic or formic acid, zinc chloride or sodium silicofluoride to coagulate the resultant unprotected polymer suspension, causing gelation. Use level is 0.25-0.5 phr. based on the dry weight of the latex polymer.

All of the ingredients used to manufacture Octosol 571 are listed on the following inventories, TSCA, Canadian, DSL, Japanese, ENCS and the European, EINECS.

STORAGE AND HANDLING:

Concentrated quaternary ammonium solutions are irritating to the skin and eyes. Personnel handling this product must wear suitable protective clothing. Packaging for Octosol 571 is in 55-gallon plastic drums with flammable liquid label. Do not dump large quantities of quaternary ammonium compounds into biological treatment streams at one time. At concentrations of 10 ppm or less, this material may be degraded by acclimated microorganisms. However, inhibition of the water treatment process could occur at higher levels resulting from large dumping. Protect from freezing. Store at 40 – 90 deg F. Containers should be kept tightly closed; avoid direct sources of heat or sunlight when possible. Make sure the part drum is used quickly and that all stock is rotated on a first-in, first-out basis. Contents should be stirred using mechanical agitation prior to use. Shelf life expected one year from date of manufacture provided the material is stored at proper temperatures and containers remain tightly closed.

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The information provided herein is believed to be reliable; however, no guarantees are made or liability assumed. Tiarco Chemical makes no claims or warranties concerning the suitability of the product for a particular use or purpose.