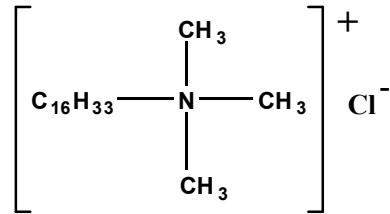


CARSOQUAT™ 450I

Quaternary Ammonium Chloride



Carsoquat™ 450I is a light yellow to light amber solution of Cetyl Trimethyl Ammonium Chloride. This product has found a long history of use as an ingredient in hair conditioners and cream rinses where it imparts improved wet and dry combing and better manageability.

Typical Chemical Composition

Cetyl Trimethyl Ammonium Chloride	50%
Isopropanol	35%
Water	15%

Physical Properties

Physical State	Light Yellow to light amber liquid with a mild, soapy odor
% Quaternary @ MW = 319.5	49.0 – 52.0%
Free Amine and Amine Hydrochloride	2% Max
Color (Gardner)	3 Max.
pH (0.5% Active, aqueous))	6.5 – 9.0
Flash Point (Setaflash, °F)	60° F

Specifications and analytical methods are available upon request.

Performance

Carsoquat™ 450I is a 50% active solution of cetrimonium chloride. A widely used conditioning agent for detangling, having wet and dry compatibility and static control. It is easily washed from the hair and is suited for use in extra-body conditioners.

Compatibility

Freely dispersible in water, lower alcohols, ketones and glycols. Compatible with inorganic detergent builders, organic chelates, nonionic surfactants and polar solvents. Forms ion pairs with anionic soaps and surfactants.

Safety & Toxicology

All components of this product are currently listed on the EPA TSCA 8(b) inventory list or are incidental byproducts. Refer to Lonza Material Safety Data Sheet for this product.

Shipping

Carsoquat™ 450I comes in 360 lb poly closed head drums and in bulk shipments.

The seller makes no warranty, expressed or implied, concerning the accuracy of any results to be obtained from the use of this information and no warranty is expressed or implied concerning the use of these products other than indicated within. The buyer assumes all risks of use and/or handling. No statement is intended or should be construed as a recommendation to infringe any patent

Revised 23-March 2011

supersedes 16-March 2011

Printed in the USA

Regulatory

CTFA, INCI Designation: Cetrimonium Chloride
CAS No.: 112-02-7

For further information on Carsoquat™ 450I formulations utilizing Carsoquat™ 450I, please call our Technical Service Hotline at (800) 365-**TECH** (8324).