personal care specialties ashland.com



**BULLETIN VC-973** 

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# styleze<sup>™</sup> es-1 polymer

a multifunctional, readily biodegradable polymer delivering long-term style durability, naturally

formulator benefits	formulation benefits
<ul> <li>multifunctional polymer providing both styling and conditioning benefits</li> <li>easily dispersed in water</li> <li>rapidly hydrates after pH adjustment</li> <li>nature-derived, COSMOS-validated</li> <li>readily biodegradable (OECD 301D)</li> <li>89% natural per ISO 16128-1 &amp; 16128-2</li> </ul>	<ul> <li>delivers enhanced curl formation and integrity</li> <li>provides 48-hour high humidity hold and style durability</li> <li>supplements styling with conditioning benefits</li> <li>enhances foam properties including bloom and stability</li> </ul>

hair care styling applications

product forms mousses, styling creams/lotions, combing creams

formulations by Ashland traditional and spray aerosol mousses, combing creams, cream gels

# chemistry



Guar hydroxypropyltrimonium chloride

# typical properties



The information contained in this document and the various products described are intended for use only by persons having technical skill and at their own discretion and risk after they have performed necessary tests and evaluations of the products and their uses. All statements, information and data presented herein are believed to be accurate and reliable, but are not to be taken as a guarantee, an express warranty, or an implied warranty of merchantability or fitness for a particular purpose, or representation, express or implied, for which Ashland and its subsidiaries assume legal responsibility. A purchaser must make its own determination of a product's suitability for purchaser's use, the protection of the environment, and the health and safety of its employees and customers. We make no warranty against infringement of any patents by reason of purchaser's use of any product or formulation described in this document. ® Registered trademark, Ashland or its subsidiaries, registered in various countries. \*trademark owned by third party. © 2019, Ashland.

#### formulation guidelines

recommended use levels	0.25 - 2.0%
temperature/mixing conditions	disperse at RT under agitation, reduce pH 5-7; mix well.
when to add	when working with anionic ingredients, process separately and add once the anionic is properly neutralized and the es-1 is dispersed and pH adjusted
tips from Ashland solvers	can be blended with a variety of chemistries (anionic, cationic, amphoteric and nonionic) allowing for a broad range of performance variants

# safety, handling, and storage

Storage is recommended in tightly closed original containers at temperatures between 5°C and 25°C. Additional information concerning safety, handling and storage is supplied in the safety data sheet, which can be made available upon request. Such information includes:

- o classification and labelling per regulation for transport and for dangerous substances
- o protective measures for storage and handling

A toxicology summary can also be made available, on a confidential basis, by contacting Ashland's toxicology department.

# regulatory

CAS #: 65497-29-2 INCI name: guar hydroxypropyltrimonium chloride listed on the China IECIC-2015 Halal certificate available Other regulatory information is available on request.

