# technical data sheet



personal care specialties

ashland.com

page 1 of 2

**BULLETIN VC-993** 

# n-hance<sup>™</sup> 3215 cationic guar

a high charge, high molecular weight cationic polymer derived from nature providing excellent conditioning and deposition benefits to hair and skin through its coacervation mechanism

#### formulator benefits

- o based on nature-derived, renewable guar gum
- o 83% natural origin content according to ISO 16128-2:2017
- multi-functional ingredient delivering thickening and conditioning benefits in shampoo and body wash formulations
- o easily dispersed in water
- o cold processable

### formulation benefits

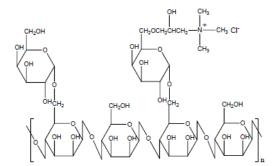
- o excellent deposition properties
- provides good conditioning in formulas for ethnic and damaged hair.
- o soft and luxurious after-feel on skin
- foam stability, lather, and skin softening from shaving cream formats

# skin and hair care applications

product forms shampoos, conditioners, liquid soaps, body washes,

formulations by Ashland: shampoos, body washes

## chemistry



guar hydroxypropyltrimonium chloride



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# typical properties

% nitrogen	1.8
charge density, meq/g	1.0
viscosity, 2hr (Brookfield RVT 1% aq., spindle #4, 20rpm at 25 °C)	
pH, 1%	8-10
moisture, % max	10

formulation guidelines

recommended use levels	shampoos: 0.10-0.50 wt% for conditioning. A higher dosage up to 1.5% maybe necessary if additional thickening is required. shower gels / shaving creams: 0.10-0.50 wt% lotions: ≤ 0.25 wt%
temperature/mixing conditions	<ul> <li>cold processable, but tolerant of hot processing</li> <li>add the polymer to the vortex of well-agitated water until dispersed.</li> <li>continue mixing and adjust pH to ~5.5 and continue mixing until particles dissolved</li> <li>add surfactants in order of ionic character, beginning with non-ionics, amphoterics then anionics to avoid incompatibility. Add the remaining formula ingredients, adjusting pH and viscosity if necessary.</li> </ul>
tips from Ashland solvers	N-hance™ 3215 can also be dispersed into non-solvents such as glycerin, propylene glycol, fragrance, or natural oils then added as a premix to the water phase after surfactant addition.

# 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 your local Ashland representative or by visiting Ashland.com.

# regulatory

CAS #: 65497-29-2

INCI name: guar hydroxypropyltrimonium chloride listed on China IECIC-2015 Halal certificate available

Other regulatory information is available on request.

