technical data sheet



personal care specialties

ashland.com

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BULLETIN VC-5761

advantage™ s solution polymers

formulator benefits

- broad propellant tolerance
- no neutralization required
- compatible with a wide range of ingredients, including anionic thickeners
- o enables alcohol free formulations

formulation benefits

- o strong, durable hold
- high humidity resistance
- excellent shine
- color enhancement
- o frizz control
- low tack

advantage™ s solution – preserved with Diazolidinyl Urea and Iodopropynyl Butylcarbamate (and) Propylene Glycol.

advantage™ s solution PO - preserved with Phenoxyethanol

applications

hair styling

product forms hair spray, cream, gel, mousse, **available formulations from Ashland** styling gels, styling sprays, styling mousses

chemistry

$$\begin{array}{c|c} -CH_2-CH & CH_2-CH & CH_2-C$$

Aqueous solution of Vinyl Caprolactam/VP/ Dimethylaminoethyl Methacrylate Copolymer



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typical properties

appearance	clear colorless-straw yellow solutior
solubility	water, alcohol
pH	5-8
cloud point	44°C
solids	30% aqueous solution

formulation guidelines

recommended use levels	1-5% solids
temperature/mixing conditions	no neutralization required; cold processable
when to add	advantage™ s is best added after other batch ingredients containing acid moieties have been neutralized

safety, handling, and storage

It is recommended to store advantage TM s in a sealed container.

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 information
- 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.

regulatory

CAS No. mixture

Other regulatory information can be made available on request.

