

## ACUSOL® OP301

### Opacifying Agent for Use in Personal Care Preparations and Other Liquid Detergent Products

ACUSOL® OP301 opacifier is a water-based, styrene/acrylic emulsion used for opacifying personal care, household and institutional products including shampoos, bath and shower gels, laundry and dishwash detergents, and household cleaners.

#### PHYSICAL AND CHEMICAL PROPERTIES

*(these do not constitute specifications)*

pH	2.05 – 2.50
% solids	39 – 41
Average particle size (µm)	0.17
Viscosity (cPs)	<50

#### END USES

- General purpose, personal care and household products e.g., bath and shower gels, liquid hand soaps, shampoos, and laundry and dishwash detergents.

#### APPLICATION INFORMATION

- ACUSOL® OP301 is used to impart a “milky” or “lotionized” appearance to a liquid product, generally at addition levels of 0.1-1.0%.
- It is recommended that ACUSOL® OP301 is added last in the manufacturing cycle (i.e. after final pH adjustment). To avoid potential “shock” the product should be diluted with at least four times its own weight of water before use, then added very slowly to the final mix maintaining good agitation throughout the addition process.

- Stability testing should be carried out on all opacified products. Four week stability tests under the following conditions are recommended: (1) room temperature; (2) oven 40-45°C; (3) cold 4-6°C; and (4) freeze/thaw, 3 cycles.

#### HANDLING AND STORAGE

- ACUSOL® OP301 is not freeze/thaw stable and should therefore be kept at temperatures of 5 to 35°C. If kept under these conditions and in their original unopened containers, the product will have a shelf life of eighteen months or greater from date of manufacture.
- If the product is stored in a diluted form, a preservative is required.

#### PRODUCT INFORMATION FOR COSMETIC APPLICATIONS

- INCI Name: styrene/acrylates copolymer
- A Product Information Package is available for all those customers who use ACUSOL® OP301 in personal care products. This contains all the information necessary for the labelling of the final cosmetic product and all safety data relevant to the safety assessment of a cosmetic product required under the EU Cosmetic Directive.

More information about our products and services:  
[www.rhpersonalcare.com](http://www.rhpersonalcare.com), [www.rhhousehold.com](http://www.rhhousehold.com) or [www.rhiandi.com](http://www.rhiandi.com)  
Find our worldwide addresses on the web: [www.rhcis.com](http://www.rhcis.com), "contact us", "worldwide addresses"

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