



## ACULYN™ 38 Rheology Modifier

### Description

ACULYN 38 is an alkali-swellable anionic acrylic polymer emulsion (ASE) that is lightly crosslinked to impart a short pseudoplastic flow. It is a liquid, cold-processable product that instantaneously thickens upon neutralization providing ease of handling and increased manufacturing efficiency. This thickener is offered at 28% solids and has been developed for use as a rheology modifier and suspending agent for personal care surfactant formulations. It is effective in a range of personal care surfactants and is useful at pH 3-11, depending on formulation. It is stable in the presence of sodium chloride and two common conditioning agents, Polyquaternium-7 and Polyquaternium-10 as well as, polar solvents and zinc pyrithione. The polymer has a well-established toxicological profile and is safe in normal use.

### Features

- Stable in highly alkaline systems
- Particulate suspension
- Polar solvent compatibility
- Instant neutralization/thickening
- Short flow
- Cold-processable/liquid
- Divalent ion tolerance
- Excellent viscosity stability
- Yields clear gels
- Flat pH/viscosity response
- Lack of odor
- Excellent high shear stability

### Benefits

- Easy to handle
- Formulations exhibit little viscosity drift
- No predissolution necessary
- Compatible with nonionic and anionic surfactants
- Non-hygroscopic
- Permits stable formulations with particulates
- Increased manufacturing efficiency
- Formulation of spreadable lotion products that flow readily from the container
- Allows for use of continuous production processes with use of in-line static mixers
- Ability to stabilize suspensions
- Less sensitive to water hardness
- Able to formulate clear products
- Does not promote or support contamination, unlike natural thickeners
- Mild, soft, non-greasy, non-sticky
- No watery feel upon skin contact
- Flexibility in choice of preservative system
- Improved pickup properties
- Supported by comprehensive environmental, health and safety data

## Physical Description

The values presented in this chart should not be considered as product specifications.

INCI name	Acrylates/Vinyl Neodecanoate Crosspolymer
Association	None
Ionic nature	Anionic
Appearance	Milky liquid
Solvent	Water
Solids	29
pH (as supplied)	2.7
Density	1.05
Equivalent weight	239
Rheology	Short, smooth
Shear thinning	Moderate
Viscosity, mPa s (as supplied)	≤150

## Additional Literature

### Formulations

#### Hair care

Lovable Locks Conditioning Shampoo with Anti-frizz  
Anti Dandruff Shampoo  
Pearlized Conditioning Shampoo with Silicone Emulsion  
Pearlized Conditioning Shampoo with Silicone Fluid

#### Skin care

Shower Power Citrus Shower Gel with Gentle Micro Beads  
Low pH Suspending Body Wash  
Suspending Body Wash

---

ACULYN is a trademark of Rohm and Haas Company, or of its subsidiaries or affiliates. The Company's policy is to register its trademarks where products designated thereby are marketed by the company, its subsidiaries or affiliates.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Rohm and Haas Company makes no warranties, either expressed or implied, as to the accuracy or appropriateness of this data. Rohm and Haas Company expressly disclaims any implied warranty of fitness for a particular use.

We recommend that the prospective users determine for themselves the suitability of Rohm and Haas materials and suggestions for any use prior to their adoption.

Suggestions for uses of our products or the inclusion of descriptive material from patents and the citation of specific patents in this publication should not be understood as recommending the use of our products in violation of any patent or as permission or license to use any patent of the Rohm and Haas Company.

Material Safety Data Sheets outlining known health and safety hazards and handling methods for our products are available on request.

