

Technical Data Sheet

ACULYN[™] 38 Polymer

INCI name: Acrylates / Vinyl Neodecanoate Crosspolymer

Features & Benefits

- 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
- Easy to handle
- Formulations exhibit little viscosity drift
- No predisolution 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

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Unit	Result
	Acrylates/vinyl neodecanoate crosspolymer
	None
	Anionic
	Milky liquid
	Water
	29
	2.7
	1.05
	239
	Short, smooth
	Moderate
mPa s	< 150

Description

ACULYN[™] 38 Polymer 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.

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

Handling Precautions	PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.
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	For further information, please see our website, dow.com or consult your local Dow representative.
Disposal Considerations	Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.
	It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.
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