

NUMBER 4855

Surfadone™ LP-100 wetting agent

Surface Active Solvent for Specialty Applications

Description

Surfadone LP-100 wetting agent is a low foaming, nonionic rapid wetting agent with an HLB of 6 having no critical micelle concentration (CMC). Due to the electron delocalized lactam ring, Surfadone LP-100 wetting agent interacts with anionic surfactant to form mixed micelles. This greatly enhances its water solubility, resulting in a synergistic surface tension reduction and wetting enhancement at very low concentrations.

Key Attributes

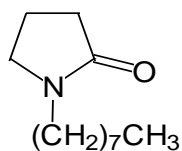
- Soil penetrant and softener in hard surface cleaners, such as metal cleaning
- Wetting agent for industrial and institutional cleaners
- Isopropyl alcohol replacement in fountain solutions
- Pigment dispersion aid and pigment conditioning solvent
- Component of photoresist strippers
- Wetting agent for aqueous systems
- Component in microemulsifying systems
- Soluble in organic solvents; sparingly soluble in water
- Excellent solvent for polymers and hydrophobic materials
- Biodegradable

Applications and Usage Notes

- **Graphics**
 - Fountain Solutions— functions as an alcohol (isopropanol) substitute in lithographic printing solutions providing alcohol free solution, low VOC, lowers dynamic surface tension, rapid wetting of image areas of printing plates, less ink build-up, longer runs between cleanup.
 - Pigment Conditioning and Dispersion – functions as a grinding aid and crystal growth inhibitor in pigment preparations. Improves color strength of phthalo blue dispersions, reduced viscosity decreases grinding time, non-combustible, low order of toxicity, less volatility than current systems.
- **Household, Industrial and Institutional Cleaners**
 - Acts as a co-surfactant, co-emulsifier, soil penetrant and softener in the following:
 - Grease Removers
 - Metal Degreasers
 - Pre-Treatment Fluid for Paint Line / Ultrafiltration Membrane Cleanup
 - Improves cleaning due to synergetic wetting effects with anionic, nonionic and amphoteric co-surfactants, promotes solubility of fragrances into formulae, aids penetrations and solubilization of greasy soils, reduces streaking, imparts foam stabilization, and effectively wets high energy (aluminum) and low energy (Teflon) substrates.
- **Miscellaneous**
 - Carbon black dispersant for rubber goods
 - PVC Plasticizer- Improves cold flex at low dose (2-3%)
 - Specialty Coating- wetting agent



Typical Product Properties



**Surfadone™ LP-100 wetting agent
(N-Octyl-2-pyrrolidone)**

Molecular Weight	197
Physical form	Liquid
Color (APHA)	100 max.
Purity	98.0 min.
Moisture Content	0.1 max.
Boiling point	100°C @ 0.3mm Hg
Vapor pressure	<0.001 est. mm Hg @ 20°C
Flash point	113°C
Freezing point	-25°C
Viscosity	8 cP @ 20°C
Specific gravity	0.9 @ 25°C
Minimum equilibrium surface tension	28 mN/m @ 0.12%
Minimum dynamic surface tension	35 mN/m @ 10 bubbles/sec
HLB	6

Packaging Information

Product	Physical Form	Pkg Type	Net Wgt (lbs)	Net Wgt (kgs)
Surfadone LP-100	Liquid	Steel Drum	400 lbs	181.4 kgs
Surfadone LP-100	Liquid	HDPE IBC	2000 lbs	907.1 kgs
Surfadone LP-100	Liquid	Bulk TW	44,000 lbs	19,960 kgs

Product Safety Information

For health and safety data and handling, storage and disposal procedures, please refer to the Safety Data Sheet (SDS) and product label.

To learn more, visit ashland.com

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