

NUMBER 4856-1 (Supersedes 4856)

## Surfadone™ LP-300 wetting agent

*Surface Active Solvent for Specialty Applications*

### Description

Surfadone LP-300 wetting agent is sparingly soluble in water (0.02 weight percent) and soluble in most organic solvents. It is a low foaming, nonionic surfactant with an HLB of 3 and has no critical micelle concentration (CMC). As with its lower homolog, Surfadone LP-300 wetting agent interacts with anionic surfactants forming mixed micelles which greatly enhance its solubility resulting in a synergistic surface tension reduction and wetting enhancement. Appropriate combinations of Surfadone LP-300 wetting agent and anionic surfactants produce viscous solutions and gels.

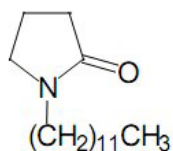
### Key Attributes

- High boiling solvent for polymers and hydrophobic substances
- Ingredient in pressure sensitive adhesives
- Soluble in organic solvents; sparingly soluble in water
- Synergistic surface tension reduction with anionic surfactants
- Enhances wetting, provides high surface activity at very low conditions
- Biodegradable

### Applications and Usage Notes

- **Household, Industrial and Institutional Cleaners**
  - Acts as a co-surfactant, co-emulsifier, soil penetrant and softener in the following:
    - Hard Surface Cleaners and Concentrates
    - Grease Removers
  - 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 in liquid detergents, mixtures with select anionic surfactant forms gels.
- **Adhesives**
  - Sprayable Pressure Sensitive Adhesives – fosters dispersion, coagulation and wetability in acrylic ester / chloroprene containing adhesives used in binding foams (i.e., polyurethanes, polyether, etc.) to plastic, metal and wood substrates. Rapid initial adhesive strength, low waste, low volatility
- **Plastics**
  - PVC Plasticizer, improves cold flex

## Typical Product Properties



**Surfadone™ LP-300 wetting agent  
(N-Dodecyl-2-pyrrolidone)**

|                                     |                          |
|-------------------------------------|--------------------------|
| Molecular weight                    | 253                      |
| Physical form                       | Liquid                   |
| Color (APHA)                        | 180 max.                 |
| Purity                              | 98.0 min.                |
| Moisture Content                    | 0.1 max.                 |
| Boiling point                       | 145°C @ 0.2 mm Hg        |
| Flash point                         | 240°C                    |
| Freezing point                      | 10°C                     |
| Vapor pressure                      | <0.001 est. mm Hg @ 20°C |
| Viscosity                           | 17 cP @ 25°C             |
| Specific gravity                    | 0.9 @ 25°C               |
| Minimum equilibrium surface tension | 26 mN/m @ 20 ppm         |
| HLB                                 | 3                        |

## Packaging Information

| Product          | Physical Form | Pkg Type   | Net Wgt (lbs) | Net Wgt (kgs) |
|------------------|---------------|------------|---------------|---------------|
| Surfadone LP-300 | Liquid        | Steel Drum | 100 lbs       | 45.3 kgs      |
| Surfadone LP-300 | Liquid        | Steel Drum | 400 lbs       | 181.4 kgs     |
| Surfadone LP-300 | Liquid        | HDPE IBC   | 2000 lbs      | 907.1 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](http://ashland.com)

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