

## Technical Information

## SURFYNOL® AS 5100 – Dynamic Wetting Agents

Table 1: Typical Properties<sup>1</sup>

Appearance	clear to hazy, yellow liquid
Viscosity @ 25 °C (mPa · s)	190
Specific Gravity @ 25 °C	1.05
Flash Point (°C)	> 230
Pour Point (°C)	-2

<sup>1</sup> These are typical properties only and do not represent sales or manufacturing specifications.

### Description

The movement from solvent-based to waterborne adhesives presents a special challenge to the formulator and coater. Films, silicone-release liners, and other low-energy surfaces are difficult to coat with water-based formulations and wetting agents are needed to produce the low surface tension required for good coverage without retraction.

Existing wetting agents are available to provide good wetting, but many of these surfactants must be used with high levels of defoamer to keep foam generation under control. Most defoamers cause cratering, fisheyes, and other coating problems which must be solved through the addition of more foam-producing wetting agent.

Achieving the appropriate balance between wetting agent and defoamer is many times a long and difficult process; however, SURFYNOL® AS 5100 can solve this formulating dilemma by providing excellent dynamic wetting with minimal foam generation.

### Advantages

- Excellent reduction of equilibrium and dynamic surface tensions
- Excellent wetting of silicone release liners, plastic films, and other low-energy surfaces
- Low foam generation
- Several FDA and other food contact compliances
- Ease of addition with no gel formation

### Applications

- Pressure-sensitive adhesives (PSAs)
- Flexible food packaging adhesives
- Laminating adhesives

### Storage and handling

Keep containers tightly closed in a dry, cool, and well-ventilated place. Product is freeze-thaw stable; if it phase separates or freezes at colder temperatures, warm container to 40 °C and mix thoroughly before use.

### Shelf life

The shelf life for this product is 60 months from the date of manufacture.

### Handling precautions

Refer to the Material Safety Data Sheet for the most current information.

### Registration status

The components of Surfynol® AS 5100 are listed in the following chemical inventories:

EINECS, TSCA, DSL, TCSI, AICS, ENCS, TCCL, PICCS, IECS, NZIOC

## Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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