

Technical Information

SURFYNOL® AS 5120

Dynamic Wetting Agent

Typical properties

Appearance	Clear hazy, colorless to pale yellow liquid
Density at 25 °C	1.04 (g/mL)
Viscosity at 25°C	approx. 2500 mPa.s
Flash Point	>100 °C
Pour Point	7 °C

These are typical properties only and do not represent sales or manufacturing specifications.

Description

Surfynol® AS 5120 is a proprietary wetting agent designed to provide dynamic wetting without generating excess foam in waterbased pigment dispersions, adhesives and paper coatings. Surfynol® AS 5120 does not contain added mineral oils, hazardous air pollutants (HAPs), alkyl phenol ethoxylates (APEs) or acetylenic diols.

Surfynol® AS 5120 is especially suited for waterbased applications requiring global food contact compliances.

Surfynol® AS 5120 offers superior wetting over the most difficult surfaces including silicone release liners and lithographic inks.

Recommended Usage

Between 0.1 and 1.0 % of total formulation weight. Add slowly to formulation under moderate agitation.

Advantages

- Excellent dynamic surface tension reduction
- Low odor surfactant
- Easily incorporated into waterbased systems
- Low foam wetting performance
- Outstanding wetting on difficult substrates
- Suitable for application requiring global food contact compliances

Applications

- Adhesives
- Flexible food packaging adhesives
- Paper coatings
- Pressure sensitive adhesives
- Pigment dispersions

Food Contact Status

The surfactant complies with*:

- US FDA 21CFR 173.340, 175.105, 176.170, 176.180, 176.200, 176.210
- Plastics Regulation PIM EU 10/2011
- BfR-Recommendation XIV
- Swiss Ordinance SR 817.023.21 – Annex 6, Part A of Lists I–V
- China GB9685–2016

Storage and Handling

Surfynol® AS 5120 should be stored under dry and clean conditions between –10 °C and 50 °C.

Product is freeze–thaw stable; if it phase separates or freezes at colder temperatures, warm container to 40 °C and mix thoroughly before use. Please refer to Material Safety Data Sheet.

Registration status

The components of Surfynol® AS 5120 are listed in the following chemical inventories:

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

Shelf-Life

24 months from the date of manufacture.

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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Evonik Nutrition & Care GmbH
Goldschmidtstraße 100
45127 Essen, Germany
Phone Europe +49 201 173 2665
Phone Asia +86 21 61191 125
Phone Americas +1 804 727 0700
interface-performance@evonik.com
www.evonik.com/Interface-performance

