

## Technical Information

# SURFYNOL® DF 110D

## Molecular Defoamer

### Description

SURFYNOL® DF-110D defoamer is a highly effective, nonionic, molecular defoamer and deaerator. This defoaming/de-airentaining agent can be used for a wide variety of applications where foam prevention or foam elimination is necessary without causing surface defects.

### Advantages

- Long-lasting, defect-free foam control
- Effective against microfoam
- Good substrate wetting
- Stability in formulations between pH 3–10
- Synergistic with conventional defoamers
- Contains no added silicone, silica or fluorinated materials
- Contains no added alkylphenol ethoxylates (APEs)

### Recommended Usage

Typical use levels are between 0.1 and 1.0 wt. % of total formulation.

### 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.

Please refer to Material Safety Data Sheet.

### Typical properties

Appearance	Clear, yellow to amber liquid
Specific Gravity at 21 °C	0.99
Viscosity at 25 °C	185 mPa.s
Pour Point	-6 °C
Flash Point	>110 °C

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

### Applications

- Coatings
  - Automotive OEM and refinish
  - Electro-depositioning
  - Industrial maintenance
  - Metal, plastic, wood and paper
- Graphic arts
  - Printing inks
  - Overprint varnishes
  - Fountain solutions
  - Plate cleaners
- Lamination adhesives
- Dye and pigment synthesis
- Pigment grinding and dispersing
- Semiconductor cleaning and processing
- Oil and gas processing
- Metalworking fluids
- Electroplating
- Concrete and mortars

## Shelf-Life

60 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.

05/2018

## For Technical Information, Support and Samples:

Americas: [prodinfo@evonik.com](mailto:prodinfo@evonik.com)

Asia: [picasia@evonik.com](mailto:picasia@evonik.com)

EMEA: [apcse@evonik.com](mailto:apcse@evonik.com)

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

**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](mailto:interface-performance@evonik.com)  
[www.evonik.com/Interface-performance](http://www.evonik.com/Interface-performance)

