

Technical Information

CARBOWET® 106 Surfactant – Non-Ionic Surfactant**Description**

CARBOWET® 106 surfactant is an optimized non-ionic surfactant that has been designed to be an effective alternative to alkylphenol ethoxylate surfactants (APEs) containing approximately six moles of ethylene oxide (with HLBs of ~11). It is a 100% active, low viscosity liquid that provides rapid pigment and substrate wetting and offers benefits in a wide range of applications. Additionally, CARBOWET® 106 surfactant is easy to use and incorporate.

Benefits

- 100 % active, low-viscosity, easy-to-handle liquid
- Cost-effective surface tension reduction
- Rapidly soluble in water—not prone to gel formation
- Contains no added solvent or APEs
- Adds no VOCs per US2 regulations
- Has several food contact compliances
- Listed on CleanGredients™

Applications

- Architectural coatings
- Industrial coatings
- Adhesives
- Pigment synthesis and dispersion
- Inks

Recommended usage

Between 0.1 and 3.0 % of total formulation weight.

Storage and handling

Keep away from direct sunlight. Overheating of an ethoxylate stored under air should be avoided. When an ethoxylate is vigorously mixed in the presence of air or oxygen at temperatures > 125 °F (> 50 °C), it can degrade product quality. Storage under an inert atmosphere is recommended.

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 24 months from the date of manufacture.

Table 1: Typical Properties¹

Appearance	clear, colorless to pale yellow liquid
Viscosity @ 25 °C (mPa · s)	48
Specific Gravity @ 25 °C	0.97
Flash Point (°C)	157
Pout Point (°C)	7
VOC (US EPA Method 24) ²	0

- 1 These are typical properties only and do not represent sales or manufacturing specifications.
- 2 VOCs, as defined by the EPA in 40 CFR 51.100(s). AIRASE® 4500 defoamer was found to contribute no VOC under EPA Method 24 testing conditions when evaluated at 1.0 wt.% in a zero-VOC coating formulation.

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.

10/2020

For Technical Information, Support and Samples:

Americas: prodinfo@evonik.com
Asia: picasia@evonik.com
EMEA: 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
www.evonik.com/Interface-performance

