

EDENOL® EFC-100

Use

Edenol® EFC-100 Emission Free Coalescent was developed for coatings formulations with less than 50 g/l VOC. It is produced from renewable raw materials and can replace traditional VOC contributing coalescents.

Traditional coalescents vaporize in the air during the drying process and contribute towards VOC (Volatile Organic Compounds). However, Edenol EFC-100 remains in the paint film to provide a long lasting coalescing effect and at the same time increasing the total solids content of the system.

Edenol EFC-100 is supplied as a 100% active pale yellow liquid.

Edenol EFC-100 not only reduces the VOC's of the paint, but also improves key performance properties.

Composition

Produced from renewable raw materials, it can replace traditional VOC contributing coalescents.

Specification

Appearance (Visual)	Clear to slightly hazy, yellow liquid
Color, Gardner (ISO 4630)	5 max.
Viscosity (mPa.s) (ISO 2555)	25-35
Acid value, meq. KOH/g (ISO 660)	5 max.
Saponification value (ISO 3657)	165-170
Density (g/ml) (25° C) (ISO 2811-3)	0.89-0.92
Moisture (%) (water content acc. to Karl Fischer) (ISO 4317)	0-0.30

Additional data

Appearance	Clear to slightly hazy yellow liquid
Viscosity, cps, 25 Deg. C	31
Activity, %	100
Density - lb/gal	7.58
g/ml	0.91
Acid Value	5
% Moisture	0.01

Properties

Key Performance Properties

- Does not contribute to the VOC content of the paint
- Low odor
- Improved scrub resistance
- Good low-temperature cure
- Higher gloss values
- Improved rheology modifier efficiency
- Good color acceptance/color development
- Non-yellowing
- Non-hazardous and based on renewable resources

Application

Edenol® EFC-100 is recommended for use in Architectural Coatings, Industrial Coatings, Construction and Building Products. We expect to find more utility for Edenol EFC-100 in other areas requiring an efficient coalescent.

Dosage

Edenol EFC 100 at a level of 1 percent to 2 percent, based on total paint, provides a good balance of performance and application properties. We recommend determining the optimum level of Edenol EFC-100 to achieve the desirable performance.

The optimum level can be determined by the minimum film formation temperature (MFFT) bar. Edenol EFC-100 can be blended with other coalescents to optimize the balance between VOC and desired performance.

Approvals

Food contact approvals

FDA CFR 21 §
175.105

Regulatory Status

TSCA (USA), DSL (Canada), PICCS (Philippines), AICS (Australia), ECL (Korea), ENCS/MITI (Japan), IECSC (China), EINECS (EU)

Miscellaneous

Edenol® EFC-100 is packaged in 55 gallon (200 liter) open-head, polyethylene / fiber composite drums. Storage in a cool, dry place away from direct heat is recommended.

If Edenol® EFC-100 was subjected to freezing temperatures during storage, warm to room temperature and mix thoroughly before using.

Additional handling information is contained in a material safety data sheet, which is available on request.

If there is a country or regional registration that is not listed, please contact Cognis for determining the registration in that country.

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Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 2 years.

Suggestions of processing and using our products are given with best knowledge and information but without obligation. COGNIS does not accept any guarantee to the suitability of a product for the user's specific purpose. Furtheron the user himself assumes a liability to follow all legal regulations by using our products. The user can only pass on our sample to third parties with previous assent of COGNIS.

