

Going APEO-free in your pigment grind? Add some Dow know-how with **ECOSURF™ LF Surfactants.**



Coating Materials

For interior and exterior paints and coatings, ECOSURF™ LF Nonionic Surfactants are APEO-free, low foam alternatives that offer excellent pigment wetting plus cloud point defoaming in pigment dispersions.

ECOSURF™ LF Surfactants are low foam, APEO-free and readily biodegradable*. For pigment wetting and color acceptance, they offer performance equal to or better than APEO surfactants, including industry-leading TRITON™ CF-10 Surfactant.

When matched with the correct dispersant, ECOSURF™ LF Surfactants further enhance low foam performance during pigment dispersion through **cloud point defoaming**.

Features

- APEO-Free
- Low Foam
- Low Odor
- Readily Biodegradable*
- Excellent Pigment Wetting
- Color Acceptance
- Cloud Point Defoaming

How ECOSURF™ LF Surfactants Work

| Pigment Add | Pigment Dispersion | Let Down |
|--|--|---|
| Excellent pigment surface wetting with low foam. | Additional foam control above cloud point. | Excellent color acceptance and freeze/thaw resistance. |
| Soluble | Insoluble | Soluble |
| ECOSURF™ LF Surfactants are initially soluble and offer excellent wetting with low foam during pigment addition. | As temperatures during pigment dispersion rise above cloud points, ECOSURF™ LF Surfactants become insoluble. In this form, ECOSURF™ LF Surfactants stop the creation of additional foam and even help to reduce existing foam. | As the paint batch is finished and temperatures decrease, ECOSURF™ LF Surfactants return to a soluble state and contribute to other properties of the coating, such as color acceptance and freeze thaw resistance. |

To maximize cloud point defoaming, consider matching ECOSURF™ LF Surfactants with the following dispersants:

| Surfactant | Dispersant |
|----------------|--|
| ECOSURF™ LF-20 | TAMOL™ 681 or 2002 Hydrophobic Copolymer Dispersants |
| ECOSURF™ LF-30 | TAMOL™ 731A or 165A Moderately Hydrophobic Dispersants |
| ECOSURF™ LF-45 | TAMOL™ 945 or 1124 Hydrophilic Dispersants |

*60 percent biodegradation within 28 days per OECD 301F

All components of ECOSURF LF Surfactants are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30. This product contains a substance that will be subject to a TSCA Section 5(a)(2) Significant New Use Rule (SNUR) and export notification under TSCA 12(b). Architectural coating formulation processes that operate under zero-discharge of wastewater should not trigger the SNUR conditions but each user should assess their operations to assure compliance. The SNUR will limit release to water to no greater than 14 ppb as calculated after waste water treatment. The total removal during wastewater treatment is estimated to be > 90% based on Episuite models and demonstrated ready biodegradability. In addition, EPA does not expect significant adverse environmental effects during the uses stated in the PMN submission. These uses included formulation at less than 1% in industrial, commercial and consumer architectural coatings. TSCA 12(b) export notification is not needed when this substance is present in mixtures at less than 1%.

ECOSURF™ LF Surfactants are marketed under the TERGITOL™ brand in Canada and Japan.

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