

Technical Information

TEGOPREN® 5860

Product description

TEGOPREN® 5860 is a polyether siloxane. It is a non-ionic product with 100 % active content.

Typical properties

Appearance	Clear, light yellow liquid
Specific Gravity at 21 °C	1.00
Viscosity at 21 °C	66 mPa.s
Flash Point (ASTM D3828)	157 °C
Pour Point	-10 °C
Activity	100%
VOC (US EPA Method 24)*	0

* Volatile organic compounds, VOCs, as defined by the EPA in 40 CFR 51.100(s). TEGOPREN® 5860 surfactant was found to contribute no VOC under EPA Method 24 testing conditions when evaluated at 0.5 wt.% in a zero-VOC coating formulation.

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

Description

TEGOPREN® 5860 superwetting surfactant is an optimized siloxane-based surfactant providing excellent equilibrium and dynamic surface tension reduction in a wide range of aqueous formulations. Designed to provide superwetting on difficult-to-wet substrates, it offers superior substrate wetting with extremely low foam. The characteristics of TEGOPREN® 5860 surfactant enable exceptional performance in waterborne adhesives. TEGOPREN® 5860 surfactant can also provide good flow and leveling under diverse application conditions.

Recommended Usage

0.1 to 1.0% for wetting benefits

Advantages

- 100% active siloxane-based superwetting agent
- Extremely low equilibrium surface tension reduction (21 mN/m at 0.1 wt.% in water)
- Very low dynamic surface tension reduction (36 mN/m at 6 Hz at 0.1 wt.% in water)
- Extremely low foam
- Good formulation compatibility; easy to incorporate
- Contains no added alkylphenol ethoxylates (APEs) or hazardous air pollutants (HAPs)

Contributes no VOC per US regulations²

Applications

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

Storage and Handling

TEGOPREN® 5860 surfactant 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 TEGOPREN® 5860 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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