

# TEGOPREN® 5847

## Product description

TEGOPREN® 5847 is a polyether siloxane. It is a non-ionic product with 100 % active content.

## Physical properties

Viscosity at 25 °C	50 - 100 mPas
Density at 25 °C	1.02 - 1.05 g/ml
Cloud point (4 % solution)	51 - 58 °C
Flash point	> 65 °C
Refractive index at 25 °C	1.449 - 1.453
Surface tension at 25 °C (0.1 % in water)	approx. 23 mN/m
Appearance/colour at room temperature	Liquid, colourless to pale brownish straw

## Solubility at 25 °C

Water	soluble
Alcohol	soluble
Aromatics	soluble
Aliphatic h. c.	insoluble
Chlorinated h. c.	soluble
Paraffin oil	insoluble

## Applications

Apart from its extraordinary reduction of surface tension in aqueous solutions, the main property of TEGOPREN® 5847 is super spreading. This is the fast coverage of large hydrophobic surface.

TEGOPREN® 5847 shows excellent surface wetting in adhesive application, where the coating of difficult substrates is required. Furthermore, it is recommended for curtain coating applications.

The improvement of penetration into paper or its wetting of fibres, make TEGOPREN® 5847 suitable for adhesives used in the paper, wood and furniture market as well as for non-wovens and hygiene products.

## Benefits

TEGOPREN® 5847 is a solvent-free easy to handle liquid.

Due to its non-ionic nature it is compatible with cationic, anionic, non-ionic and amphoteric surfactants.

The use of small amounts of TEGOPREN® 5847 reduces the surface tension of water-based systems. It therefore enhances the spreading on non-polar surfaces e. g. polypropylene.

## Dosage

Depending on the application the recommended dosage may vary between 0.03 % and 0.15 %. Suitable screening test should be performed with 0.1 %.

## Food Contact Status

### FDA

TEGOPREN® 5847 complies with 21 CFR 175.105 (adhesives).

### Registration status

The ingredients of TEGOPREN® 5847 are listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, AICS, ECL, PICCS and China

### Packaging

800 kg pallet (4 x 200 kg steel drums)  
1 000 kg container

### Storage and handling

12 months in original sealed containers at room temperatures.

## 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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### Trademark notice and legal notice

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