

TEGOPREN® 5803

Product description

TEGOPREN® 5803 is a liquid, non-ionic polyether-siloxane.

Physical properties

Appearance	clear to yellow liquid
Viscosity (25 °C)	600 – 900 mPas
Density (25 °C)	0.95 – 1.05 g/ml
Flash point	> = 90 °C
Refractive index (25 °C)	1.439 – 1.449
Active content	100 %
Surface tension (1 % in mineral oil)	ca. 27 mN/m

Application

TEGOPREN® 5803 is used as defoamer booster in pulp defoamer formulations.

It can also be used as lubricant, wetting and spreading agent for organic systems in textile auxiliary formulations.

Further TEGOPREN® 5803 could be used as antifoam for non water miscible Metal working fluids.

Solubility (25 °C)

Water	insoluble
Alcohol	dispersible
Aromatics	soluble
Aliphatic hc	insoluble
Chlorinated hc	soluble
Paraffin Oil	dispersible

Properties / Benefits

As defoamer booster TEGOPREN® 5803 provides enhanced foam knock down and hold down time.

It improves drainage and washer efficiency in the pulp process.

In textile application it reduces fibre and fibre metal friction in spin finish application.

Addition of TEGOPREN® 5803 improves the spreadability of the formulation on the fiber.

Dosage / Handling

Dosage may vary depending on the application field.

E. g. as defoamer booster in oil based pulp defoamer application concentration of 0.1 to 0.15 % is used based of total defoamer formula.

Initial dosage recommendation for non water miscible Metal working fluids is 0.05 – 1.0 % for pre-defoaming and 0.01 – 0.05 % for Tank side addition.

Registration status

The ingredients of TEGOPREN® 5803 are listed in the following chemical inventories:

EINECS, TSCA, AICS, NZIOC, DSL, ENCS, ECL, PICCS and CHINA

Storage and handling

TEGOPREN® 5803 can be stored for 12 months in original sealed containers at room temperature. For additional storage and handling information, please refer to the material safety data sheet.

Packaging

200 kg steel drums
Pallet size: 4 x 200 kg = 800 kg
1 000 kg containers

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.

07/2015

Trademark notice and legal notice

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

(Status: July 2015)

Evonik Nutrition & Care GmbH

Goldschmidtstr. 100, 45127 Essen, Germany

Phone Europe +49 201 173-2665, Asia +86 21 61191 125, Americas +1 804 727 0700

interface-performance@evonik.com, www.evonik.com/interface-performance