

TEGOTEX® CS 8080

Product description

TEGOTEX® CS 8080 is a quaternary silicone for hydrophilic textile finishing.

Physical properties

Appearance	yellowish liquid
Viscosity (Brookfield)	approx. 2500 mPas
Active content (%)	approx. 80%
Dipropylene glycol content	approx. 20 %
Weight % quat. Nitrogen	0.25 - 0.35

Application fields

TEGOTEX® CS 8080 is recommended as substantive, very high performance softening agent with good rewetting properties for textile applications.

TEGOTEX® CS 8080 provides excellent softness for non-wovens and fabrics made of natural or man-made fibers. It is also recommended as a component for diverse preparations.

TEGOTEX® CS 8080 is used in macro and micro-emulsions dependent on the co-emulsifier used.

TEGOTEX® CS 8080 can be formulated with organic quaternaries, alkoxyates, polyether siloxanes and/or alkyl-polyether siloxanes.

Benefits

TEGOTEX® CS 8080 gives outstanding softening performance, good hydrophilicity and good non-yellowing behavior.

TEGOTEX® CS 8080 is compatible and easy to formulate at room temperature conditions.

Macro emulsions made with TEGOTEX® CS 8080 show good stability and maximal softness.

Micro emulsions made with TEGOTEX® CS 8080 show good stability even at high shear rates.

Dosage/Handling

TEGOTEX® CS 8080 can be applied by the exhaust method or by padding.

For padding applications we recommend a dosage of approx. 2–8% TEGOTEX® CS 8080

For the exhaust method we recommend approx. 0.1 – 0.8 % TEGOTEX® CS 8080 (based on textile weight) at a temperature of 40°C and duration approx. 20 min.

Registration status

The components of TEGOTEX® CS 8080 are listed in the following chemical inventories:

EINECS, TSCA, NDSL, ENCS, PICCS, TCCL, New Zealand, EDSL and China

Storage stability

24 months in original sealed containers at room temperature.

Packaging

200 kg steel drums
Pallet size: 4x 200 kg = 800 kg
950 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.

Guide Formulations

20.0 % Clear Emulsion, ease in use

Product	%
TEGOTEX® CS 8080	25.0
Isotridecanol · 12 EO	3.4
Isotridecanol · 6 EO	1.7
Acetic acid	0.3
Water	69.6

Processing

Add FAEO and TEGOTEX® CS 8080 into vessel and start to stir. Add water into the above mixture vessel and keep stirring to homogenise the emulsion.

Adjust pH value to 5.5 – 6.5 with acetic acid.

19.0 % Clear Emulsion, maximal hydrophilic

Product	%
TEGOTEX® CS 8080	23.8
TEGO® SQS 25	2.5
Isotridecanol · 8 EO	2.5
Propylenglycol	5.0
Water	66.2

Processing

Add all ingredients together with TEGOTEX® CS 8080 into vessel and start to stir until clear. Add water into the above mixture vessel and keep stirring to homogenise the emulsion.

Adjust pH value to 5.5 – 6.5 with acetic acid.

Guide Formulations

22.9 % Clear Emulsion, maximal hand feel

Product	%
TEGOTEX® CS 8080	18.2
TEGOPREN® 7008	5.6
Butyl diglycol	5.0
Laurylalkohol · 6 EO	7.7
Acetic acid	0.3
Water	63.2

Processing

Add Butyldiglycol, FAEO and TEGOTEX® CS 8080 into vessel and start to stir. Slowly add TEGOPREN® 7008 and stir until clear. Add water into the above mixture vessel and keep stirring to homogenise the emulsion.

Adjust pH value to 5.5 – 6.5 with acetic acid.

31.7 % Clear Emulsion, hydrophilic/hand feel

Product	%
TEGOTEX® CS 8080	32.5
TEGO® SQS 25	5.5
REWOQUAT® CR 3099	5.7
Propylenglycol	14.4
Water	41.9

Processing

Add all ingredients together with TEGOTEX® CS 8080 into vessel and start to stir until clear. Add water into the above mixture vessel and keep stirring to homogenise the emulsion.

Adjust pH value to 5.5 – 6.5 with acetic acid.

07/2016

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