

Product Information

TEGO® SOFTENER V EPO

PRODUCT DESCRIPTION

TEA-esterquat based on vegetable oil.

Typical Properties

Property	Unit	Value
Activity	%	90
Appearance		Light yellow paste
Biobased Content renewable content is plant based	%	60
Chemical Name		Di-(palm carboxyethyl) hydroxyethyl ethylammonium methosulfate
Color Gardner		≤3
pH Value 5 % in IPA/water	- 3.5	2.5

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

TEGO® SOFTENER V EPO can be applied on nonwovens, woven and knitted textile goods as well as on fibers, threads and yarns.

BENEFITS & ADVANTAGES

Tego® Softener V EPO can be applied on its own or together with other compatible finishing auxiliaries on fibers, yarns, non-wovens, woven and knitted textile goods, via exhaust or padding process. Examples of application of Tego® Softener V EPO

- Preparation of acrylic tow for stretch breaking
- Use as softener in dyebath for acrylic fibres and as leveling agent for dyeing process
- Softener for cellulose, synthetic, wool and their blends use for garment washing and denim finish good softener in resin finishing
- Good softening agent for non-woven

DOSAGE

The recommended dosage of Tego® Softener V EPO for padding process is 2-8 g/l. For exhaust process, 0.1-0.8% (o.w.f) is recommended (treated at 40°C for 20 min.)

Preparation of 20%(SC) of Tego® Softener V EPO

Recipe

Water	77.5%
Tego® Antifoam MR 1015	0.1%
Tego® Softener V EPO	22.4%
CaCl ₂ (25%)	0.5 - 1.0%

HANDLING & PROCESSING

1. Heat water to 45-50°C, while maintaining the temperature, add the antifoam
2. Add Tego® Softener V EPO slowly. After half of the V EPO is added, add some CaCl₂ (25%) solution with continuous stirring
3. Continue adding the remaining V EPO and stir for another 10 minutes to cool down the dilution
4. Adjust the viscosity of final dilution with addition of some CaCl₂ (25%) to about 100mPas

Note: If dilution of a lower concentration is prepared, no addition of CaCl₂ (25%) is required.

PACKAGING

190 kg open top steel drums

STORAGE

Tego® Softener V EPO as delivered can be stored in closed drum for 12 months at 5 - 30 °C. Prolonged storage at elevated temperatures (approx. 60°C) will result in product discolouration. The storage tanks should be equipped with heating facilities and circulation pumps or stirring devices to avoid separation of the stored raw materials. The tanks have to be explosion-proof.

HAZARDOUS SUBSTANCE

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.

REGISTRATION LISTING SUMMARY

The relevant components of TEGO® Softener V EPO are listed/registered or exempt in the following chemical inventories:

Registration Listings

Registry	Status
Japan (ENCS)	not available
South Korea (KECL)	not available
New Zealand (NZIoC)	not available
Taiwan (TCSI)	not available

Disclaimer

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.

Evonik Operations GmbH

Interface & Polyurethane Additives
Goldschmidtstraße 100
45127 Essen
Germany