

Technical Information

TEGO® STO V

Product description

TEGO® STO V is a liquid, non-ionic sorbitan trioleate emulsifier.

Physical properties

Form (25 °C)	liquid
HLB (± 1)	1.8
Gardner color number	max. 8
Acid value	max. 15 mg KOH/g
Saponification value	170 – 190 mg KOH/g
Iodine value	72 – 88 gJ/100 g
Hydroxyl value	55 – 70 mg KOH/g
Water content	max. 1 %

Application

TEGO® STO V is used as emulsifier in a wide range of industrial applications, such as:

- Metal working fluids (MWF)
- Agrochemicals
- Concrete release agents

In the case of MWF applications, TEGO® STO V is mainly used as co-emulsifier in combination with TEGO® STO 85 for the formulation of environmentally friendly fluids based on paraffinic mineral oils and hydrocrack oils.

Properties/Benefits

TEGO® STO V is an emulsifier based on raw materials derived from natural products; therefore,

- TEGO® STO V has good toxicological and ecological properties (water hazard classification = 1)
- TEGO® STO V does not require any hazard warning labels in accordance with EG directives/German regulations on dangerous substances
- TEGO® STO V has good dermatological properties (no skin irritation)

Dosage/Handling

TEGO® STO V is used in a wide range of different applications. Therefore the dosage level can vary.

Recommendations about dosage and handling could be given on request.

Food contact status**European Regulation 10/2011 and amendments**

TEGO® STO V can be used in compliance with the European Regulation 10/2011.

BfR Recommendations and Consumer Goods Regulation

TEGO® STO V complies with the XIVth BfR Recommendation. Polymer dispersions that comply with the XIVth Recommendation may be further used as production auxiliary according to the BfR Recommendation XXXVI under B. I. 10.

FDA Regulations

TEGO® STO V complies with 21 CFR 178.3400 (Emulsifiers and/or surface active agents).

GB 9685–2016

TEGO® STO V may be used in plastics based on PE, PP, PS, AS, ABS, PA, PET and PC in compliance with the Chinese guideline GB 9685–2016 without limitation.

Registration status

The ingredients of TEGO® STO V are listed in the following chemical inventories:

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

Based on the submitted information of our raw material suppliers we can confirm, that TEGO® STO V is compliant with EC Regulation 1907/2006 (REACH).

Storage stability

In original closed containers TEGO® STO V can be stored at temperatures below 40 °C for at least 1 year.

Packaging

190 kg PE drums (760 kg each pallet)
950 kg container

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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