

Technical Information

TEGO® Antifoam KS 53

TEGO® Antifoam KS 53 is a self-emulsifying, APEO-free organic antifoam concentrate based on a food grade vegetable oil, containing small amounts of organo-modified siloxanes for enhancing the efficiency.

Physical properties

Appearance	yellow/green, opaque
Active content	100 %
Density (25 °C)	approx. 0.96 g/cm ³
Viscosity (25 °C)	130 – 210 mPas
Refractive index (25 °C)	approx. 1.470

Application fields

TEGO® Antifoam KS 53 destroys foam or prevents foam formation reliably in aqueous media and may be used for foam control in a variety of industrial applications:

- in the stripping of PVC latex in emulsion, suspension and micro-suspension polymerization*
- process aid for the water based polymerization of thermoplastics and elastomers (e. g. in the demonomerization)*
- in the processing and application of polymer dispersions/latices*, e.g. adhesive formulation
- in fermentation processes
- as an environmental-friendly antifoam for waste water treatment
- in a multitude of other industrial applications (TEGO® Antifoam KS 53 should not be used in strong alkaline media, i. e. pH > 10)

*Please contact us for application specific information.

Benefits

Due to the special selection of active ingredients TEGO® Antifoam KS 53 outperforms conventional organic antifoams in many respects (compatibility, efficiency). Furthermore, undesirable effects associated with other organic antifoams can be reduced or even eliminated (e. g. fogging of PVC).

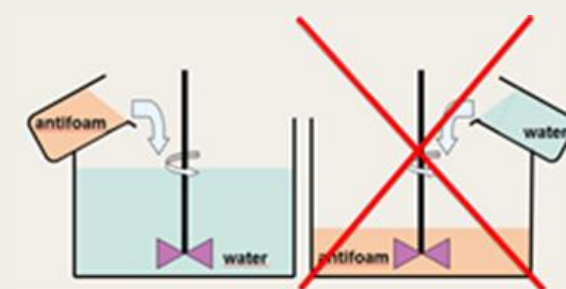
Dosage

As TEGO® Antifoam KS 53 is easy dispersible in water it may be applied as delivered. For specific process conditions aqueous pre-dilutions (1 : 10 to 1 : 20) might be desirable.

Depending on the application in question the required dosage may vary over a wide range (0.005 to 0.2 %); suitable screening tests are therefore recommended (initial dosage: 0.1 %).

Handling

When applying TEGO® Antifoam KS 53 from aqueous pre-dispersions, dilution may proceed by adding TEGO® Antifoam KS 53 to water. In order to achieve a homogeneous distribution of the active material we recommend too stir the diluted antifoam gently in the storage tank, but avoid high shear forces as they destroy the emulsion.



We recommend too stir TEGO® Antifoam KS 53 before use.

Food Contact Status

FDA Regulations

Based on the „no-migration principle“ TEGO® Antifoam KS 53 can be used in Compliance with FDA's rules for food contact if used as an additive up to a maximum use level 200mg/m². Please contact us if further information is needed. If higher amounts are needed, an opinion letter is available on a case by case basis. The field of application includes all types of plastics, paper, coatings or adhesives. The use should be consistent with Title 21 C.F.R (Code of federal regulation), included in e.g. § 175.105, §175.125, §176.170, §176.180, §176.200, § 175.300, § 177.1210 or § 177.2600.

European Regulation 10/2011 and amendments

All components of TEGO® Antifoam KS 53 are covered by the Regulation 10/2011/EU without any specific SML values.

BfR Recommendations

TEGO® Antifoam KS 53 may be used in compliance with the BfR Recommendation XIV.

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.

Registration Status

The components of TEGO® Antifoam KS 53 are listed in the following chemical inventories:

EINECS, TSCA, DSL, AICS, ECL, ENCS, PICCS, IECSC, NZIOC, TAIWAN

Based on the submitted information of our raw material suppliers we can confirm, that TEGO® Antifoam KS 53 is compliant with EC Regulation 1907/2006 (REACH).

Storage stability

TEGO® Antifoam KS 53 is stable in closed containers for a minimum of 12 months.

Packaging

190 kg steel drums (760 kg each pallet)
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.

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