

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).

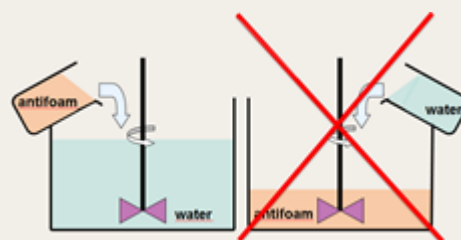
Dosage

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

TEGO® Antifoam KS 53 complies with 21 CFR 176.210 – (Defoaming agents used in the manufacture of paper and paperboard), 21 CFR 175.105 (Adhesives) and 21 CFR 177.2600 (Rubber articles intended for repeated use).

PVC containing TEGO® Antifoam KS 53 up to maximum concentrations of 1500 ppm, which is much above the typical use level of 300–500 ppm, may be safely used in compliance with 21 CFR 175.300 (resinous and polymeric coatings) and 21 CFR 177.1210 (closures with sealing gaskets for food containers).

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

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.

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)

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