

Technical Information

BREAK-THRU® AF 9903

Product description

BREAK-THRU® AF 9903 is an antifoam concentrate based on organo-modified siloxanes.

Physical properties

Viscosity at 25 °C	700 – 1500 mPas, thixotropic
Density at 20 °C	1.02 – 1.06 g/ml
Type	non-ionic
Appearance	opaque
Active content	100 %
Flash point	> 100 °C
Appearance	liquid
Colour	yellowish

Solubility

Water	dispersible
Alcohol	soluble
Aromatics	soluble
Aliphatic h.c.	insoluble
Chlorinated h.c.	soluble
Paraffinic oil	insoluble

Application

BREAK-THRU® AF 9903 can be incorporated into formulations e. g. soluble liquids (SL). Glyphosate is a good example as it often contains tallow amine ethoxylates (Americas) or APGs (EMEA, Asia) as additives which create foam when preparing and applying the spray solution.

A 360 a. e. glyphosate IPA salt formulation was prepared with 10 % v/v of a tallow amine ethoxylate and BREAK-THRU® AF 9903. After mixing the components, each formulation is then diluted 1: 50, and 50 ml are poured into a 100 ml graduated cylinder. Following vigorous shaking for 15 seconds, the foam height is recorded.

Table: Foam height depending on time [ml]

Conc./Sec.	Initial	90 s
Control	60	50
0.0165 %	48	1
0.05 %	25	-
0.15 %	13	-

At concentrations as low as 0.015 %, BREAK-THRU® AF 9903 clearly provides excellent foam control upon dilution in the tank mix.

Stir before use !

Listing status

The components of BREAK-THRU® AF 9903 are listed in the following chemical inventories:

EINECS, TSCA, DSL, AICS, ECL, ENCS, IECSC (China), PICCS

Per 40 CFR 180.910, BREAK-THRU® AF 9903 is exempt from the requirement of a tolerance when used in accordance with good agricultural practice as an inert ingredient in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest.

Storage stability

BREAK-THRU® AF 9903 is stable in closed containers for 2 years.

Packaging

4 x 200 kg drums (full pallet)
1 000 kg plastic 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.

04/2020

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Evonik Nutrition & Care GmbH

Goldschmidtstraße 100
45127 Essen, Germany
Phone Europe +49 201 173 2665
Phone Asia +86 21 61191 125
Phone Americas +1 804 727 0700
interface-performance@evonik.com
www.evonik.com/Interface-performance

