

SAG™ 1599

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Description

SAG 1599 is a foam control agent designed for use in agricultural formulations that contain high concentrations of ammonium sulfate (AMS) or other ionic nutrients and electrolyte-tolerant surfactants such as alkylated polyglucosides (APG). When properly dispersed into the high-electrolyte fertilizers or water conditioners, it has shown to provide excellent foam control without the separation problems commonly associated with traditional silicone antifoams.

Key Features and Benefits

- Excellent foam control in AMS/APG containing products.
- Performs well in concentrated product and when diluted to end-use concentrations
- Good long-term stability
- The components of SAG 1599 meet the requirements of U.S. EPA regulation 40 CFR 180.960 and are therefore exempt from tolerances in food when used as inert ingredients in agricultural applications in accordance with the other conditions of that regulation.

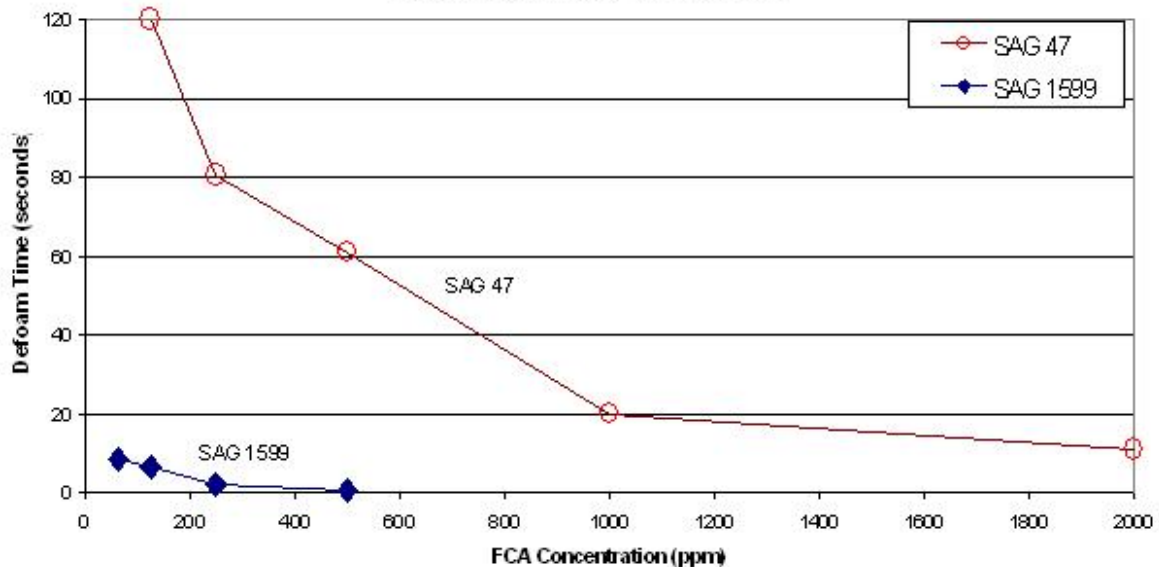
Typical Physical Properties

Property	Typical Value
Appearance	opaque liquid
Viscosity (25°C)	10,000 - 40,000 cps
Flash Point (ASTM D93)	229°C
Boiling Point	> 150°C
Freezing Point	-31°C
Density	1.027 g/cc
Solubility in water (20°C)	insoluble

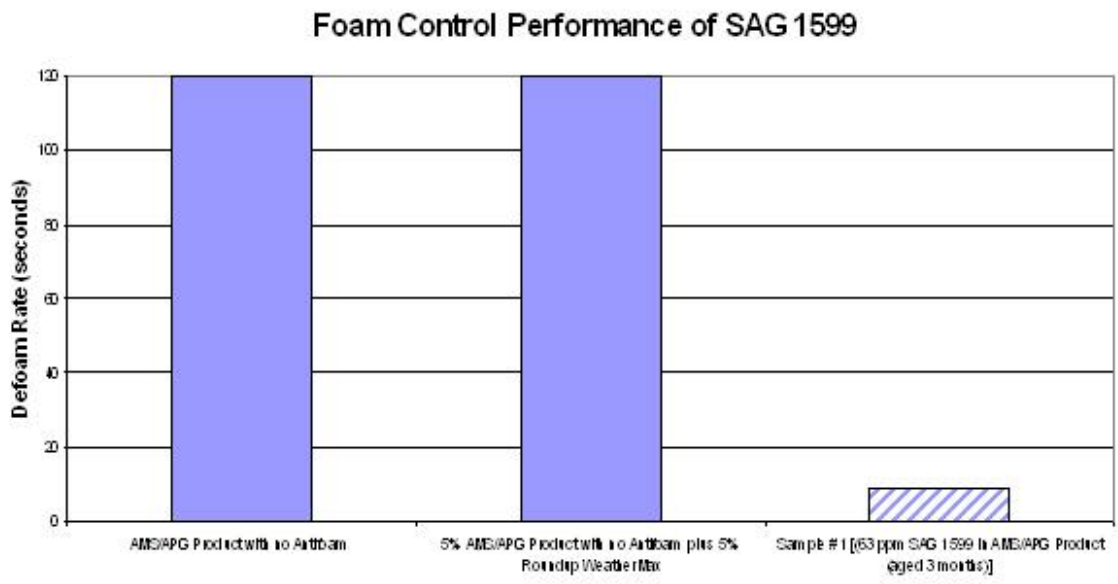
Performance Data

The foam control properties of SAG 1599 in a high AMS/APG product are compared to those of SAG 47, a traditional silicone antifoam typical of those currently being used in Figure 1. It can be seen at concentrations as low as 50 ppm the SAG 1599 is a significantly better antifoam than the SAG 47 dosed at 2000 ppm.

**Fig 1: Dilution Studies comparing SAG 1599 & SAG 47
in a High AMS/APG Foamant**



The data in Figure 2 show the long-term antifoam properties that SAG 1599 imparts to AMS/APG products and demonstrate that foam control is maintained even after diluting to end-use concentrations.



Note: The maximum foam time recorded by the Shake Foam Test is 120 seconds.
Actual defoam time could be significantly longer.

Patent Status

Standard copy to come

Product Safety, Handling and Storage

Standard copy to come

Limitations

Standard copy to come

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