#### **Technical Data Sheet**



# **SAG™** 1599

**SAG\* 1599** 

## 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

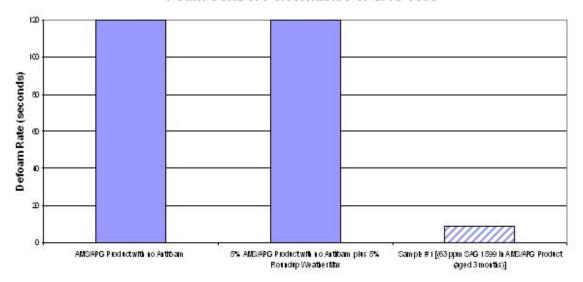
The foam control properties of SAG 1599 in a high AMS/APG product are compared to those of SAG 47, a traditional silicone antifoam typical of those currently being used in Figure 1. It can be seen at concentrations as low as 50 ppm the SAG 1599 is a significantly better antifoam that the SAG 47 dosed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

in a High AMS/APG Foamant 120 → SAG 47 → SAG 1599 100 Defoam Time (seconds 80 SAG 47 40 20 SAG 1599 200 400 600 800 1000 1200 1400 1600 1800 2000 FCA Concentration (ppm)

Fig 1: Dilution Studies comparing SAG 1599 & SAG 47

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.

### Foam Control Performance of SAG 1599



Note: The maximum foamtime recorded by the Shake Foam Test is 120 seconds. Actual defoamtime could be significantly longer.

### **Patent Status**

Standard copy to come

## **Product Safety, Handling and Storage**

Standard copy to come

#### Limitations

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