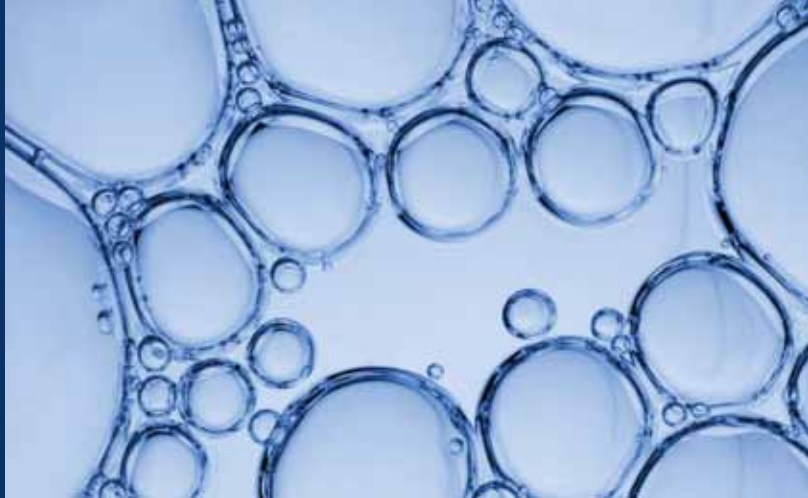


# SAG\* 1572 Silicone Antifoam Emulsion



MARKETING BULLETIN

SPECIALTY FLUIDS - AGRICULTURE

The SAG 1572 silicone antifoam emulsion is a high performance foam control agent, using recent advances in silicone technology.

SAG 1572 silicone antifoam emulsion provides excellent initial foam control as well as the ability to maintain foam control properties over longer periods compared to other silicone antifoams. As a result, SAG 1572 silicone antifoam emulsion can be used at lower use levels than conventional silicone antifoams.

SAG 1572 silicone antifoam emulsion can be evenly dispersed in water-based agricultural formulations and surfactant concentrates, yielding mixtures with excellent storage stability. In these blends, SAG 1572 silicone antifoam emulsion provides excellent foam control in a wide pH range, over a long period.

SAG 1572 silicone antifoam emulsion is very effective in many agricultural applications, as foam control agent for pesticides, during production, packaging and spray tank operations.

## Key Features and Typical Benefits

- High defoaming performance
- Excellent ability to manage difficult-to-control foaming systems
- Rapid defoaming when the antifoam is initially applied to the foaming system
- Long lasting foam inhibition
- Easy and rapid dispersal in aqueous systems and surfactant concentrates
- Performs well over a broad pH range
- Meets the requirements of EPA Regulation 40 CFR §180.920

### Typical Physical Properties

Appearance	Opaque liquid
% Solids Content	33
% Actives Content	15
Viscosity 25 °C (LVT No 3, 30 rpm), cP	1,200
Emulsifier System	non-ionic
Specific Gravity	1.0
pH	8

### General Considerations for Use

SAG 1572 silicone antifoam emulsion is a medium viscosity silicone antifoam emulsion that is an excellent candidate for commercial use in both water-based systems and surfactant concentrates. It can therefore be added directly to these systems without pre-dilution and mixed with slow to moderate agitation to ensure a complete and homogenous dispersion.

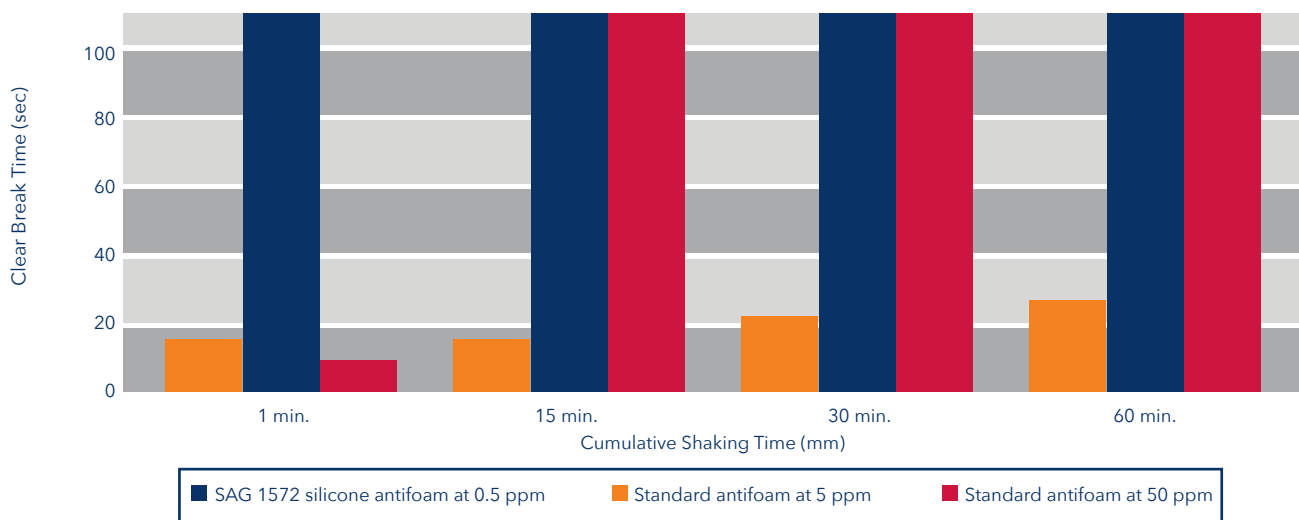
The addition levels of SAG 1572 silicone antifoam emulsion, when used in the final foaming system, will be dependent upon the nature of the foaming system and the type of agitation generating the foam. A recommended starting point is addition of sufficient SAG 1572 silicone antifoam emulsion that would give between 1 ppm and 50 ppm of antifoam (based on % solids) into the final foaming formulation.

As with any water-based formulation, it is recommended to confirm that the foam control agent remains dispersed once added to the pesticide formulation.

### Performance Data

SAG 1572 silicone antifoam emulsion provides a high level of performance in pesticide formulations. Figure 1 illustrates the shake test results with the foam clear break times corresponding to increasing shake time intervals. This figure demonstrates that, even at lower use levels than typically practiced with conventional antifoam agents, SAG 1572 silicone antifoam emulsion provides excellent performance in a commercial glyphosate formulation. Additionally, SAG 1572 silicone antifoam emulsion provides much improved durability; SAG 1572 silicone antifoam emulsion maintains high performance even after 60 minutes of agitation, while larger concentrations of standard antifoam agents start losing activity after 15 minutes.

Figure 1: Antifoam Efficiency in 2.5% Glyphosate Formulation



Note: Test data. Actual results may vary.

## Dispersibility

Effective dispersibility in agrochemical formulations is an issue with conventional foam control agents. However, the SAG 1572 silicone antifoam emulsion offers much improved compatibility with many adjuvants and "In-can" pesticide formulations. Figure 2 illustrates the dispersion stability of SAG 1572 silicone antifoam emulsion in a typical nonionic surfactant based adjuvant system. In this example, SAG 1572 silicone antifoam emulsion remains homogeneously dispersed for greater than two months, while typical foam control agents show significant signs of separation after a few days.

Figure 2: SAG 1572 silicone antifoam emulsion at 0.3% use level in a nonionic spray adjuvant formulation.



## Patent Status

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## Limitations

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