

## KAISER Performance Materials

# KAG 1538 Silicone Antifoam

for agricultural applications

### Product Description

KAG 1538 silicone antifoam is a highly potent silicone antifoam that uses novel silicone materials to provide excellent foam control. This 100% active material is designed for use in a broad range of foaming systems. Compared to common silicone defoamers, KAG 1538 silicone antifoam provides an exceptional initial foam control when first applied to a foaming system. Additionally, KAG 1538 silicone antifoam has the ability to maintain its foam control properties for longer periods, as a result it can be used at lower use levels than conventional silicone antifoams. It is particularly effective when used as the foam control agents in hard to defoam surfactant concentrates that contain a high level of organic surfactants and those that contain electrolytes.

### Typical Applications

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#### Industrial Operation

Adhesives	Paper Coating Processes
Agar	Paper Production Processes
Asphalt	Petroleum Pitch
Benzene Extraction	Propane Gas
Cutting Oils	Propane Deasphalt
Detergents & Processes	Rubber Latices
Fermentation Processes	Resins & Varnishes
Filtration Processes	Salt Solutions
Gas Scrubbi	Steel-Pickling Solutions
Glycon Dehydrations	Textile processes
Hot Aqueous Systems	Vacuum Distillations
Insecticides	Wool Fats
Oil Quench Baths	Wire-Drawing Compounds
Polishes	

#### Food & Beverage Processing

Bottle Filling Operations	Instant Coffee
Deep-Fat Frying	Vegetable Washes
Edible Oil Processing	Wine Production

#### Therapeutic Applications

As a deflatulest (in tablet form) for treating excessive gastrointestinal gas. As an aid to improve the visual field in gastrointestinal examination.

#### Veterinary Medicine

As treatment for forthy bloat	
Pharmaceutical Processing	
Ampule and bottle filling operations	Maceration
Antibiotic Production	Mixing Processes
Chlorophyll for Gum	Percolation
Fermentation Processes	Vitamin Production

### Key Features and Typical Benefits

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- 100% actives
  - High antifoam potency in the majority of foaming systems
  - Rapid defoaming when the antifoam is initially applied to the foaming system
  - long lasting foam inhibition
  - Performs well over a broad pH range
  - Approved as an inert ingredients according to EPA (40CFR 180.910)
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## Typical Physical Properties

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Appearance	Opaque, oily viscous liquid
Actives Content, %	100
Odour	Very slight
Shelf Life	1 year

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## How to Use

KAG 1538 silicone antifoam is 100% active that is not immediately dispersible in water. However, it can be easily incorporated into surfactant concentrates, using the surfactants within the system to stabilize the antifoam within the formulation. When KAG 1538 silicone antifoam is added to these concentrates, apply slow to moderate agitations to ensure a complete and homogenous dispersion of the antifoam. The final formulation that incorporates KAG 1538 silicone antifoam must be validated to ensure that the silicone actives do not migrate within the formulation as this can influence the uniformity of the foam control when these formulations are stored for prolonged periods.

The use levels for KAG 1538 silicone anti foam when used in the final foaming system will be dependent upon the nature of the foaming system and/or the agitation that causes the generation of the foam. A recommended starting point is addition of sufficient KAG 1538 silicone antifoam that would give between 5 ppm and 20 ppm of antifoam (as received) in the final foaming formulation.

## Performance Data

KAG 1538 silicone anti foam provides outstanding defoaming performance in many pesticide formulations. The shake test results with the foam height observed at 1, 15 and 30 minutes after shaking. These test data demonstrate that KAG 1538 silicone antifoam at 1 ppm, virtually eliminates all foaming in a Tallow Amine Ethoxylate (TAE, 15 EO) Ag formulation, while other standard antifoams will only reduce foaming levels. In addition, KAG 1538 silicone antifoam is easily dispersed in many non-aqueous systems, avoiding phase separation associated with typical anti foam components .

## Product Safety

When considering the use of any of KAISER - Silicones products in a particular application, you should review our latest Material Safety Data Sheets and undertake appropriate testing to ensure that your intended use can be accomplished safely. For Material Safety Data Sheets and other product safety information, contact the KAISER sales office nearest you. Before handling any of the products mentioned in the text, please obtain available product safety information and take necessary steps to ensure safety of use.

# **KAISER Performance Materials**

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

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product Safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at [www.kaiserindustries.in](http://www.kaiserindustries.in) or, upon request, from any KAISER Performance Materials representative. Use of other materials in conjunction with KAISER Performance Materials products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

## **Limitations**

Customers must evaluate KAISER Performance Materials products and make their own determination as to fitness of use in their particular applications.