

## Esca™ Ferm-S Antifoam

### Product Description

Esca Ferm-S antifoam is a highly effective antifoam concentrate designed specifically for use in grain and sugar molasses-based formulations. Its formulation from polyglycol and siloxane polymers produces an antifoam which gives outstanding foam control in complex and demanding applications. It is capable of being sterilized without compromising performance. It is stable to sterilization and can be used equally well as a concentrate or diluted in a suitable carrier or combined with other ingredients in the fermenting vessel.

### Typical Physical Properties

Specific Gravity at 25 °C	1.0
Appearance	Translucent grey viscous liquid
Recommended diluent	Vegetable oil

Typical properties are average data and are not to be used as or to develop specifications.

### Storage and Shelf Life

The product should be stored below 32 °C. Some settling of the contents may occur with time, but the product can easily be reconstituted by simple stirring. Shelf life of the unopened container is 12 months from date of manufacture.

### Potential Applications

Esca Ferm-S antifoam is water insoluble but may be used as supplied or diluted using suitable food ingredients such as vegetable oils. It has been proven to provide excellent antifoaming properties in fermentation applications as diverse as the production of antibiotic intermediates, potable alcohol, and bio-ethanol production. We would suggest that customers consult the relevant food regulations when using any form of antifoam or defoamer to confirm compliance in the intended application.

### General Considerations for Use

In use, Esca Ferm-S antifoam has been shown to be effective at very low levels. The antifoam is removed by filtration at the end of the fermentation cycle.

### Compliance

Basildon Chemical Co. Ltd. (a Momentive Group Company) operates a HACCP certified quality and product manufacturing system. Our certificate can be downloaded from our website.

Esca Ferm-S antifoam has been formulated for use in a variety of indirect food applications as a processing aid. The product components comply with one or more sub-parts of the following FDA CFR title 21 parts; 172,173,175,176,177,178,182 & 184. All of the components are generally recognized as safe in food applications provided any specified concentration limits of the title 21 subparts are adhered to. CAS component lists are available.

Esca Ferm-S antifoam is approved Kosher Parev by the Manchester Beth Din and is approved by the Halal Food Authority.

### Toxicity

The components of Esca Ferm-S antifoam have a very low order of toxicity although prolonged contact with the skin or contact with the eyes may cause some irritation. See our antifoam health and safety sheet for more information.

### Technical Service

Our technical and sales staff have considerable experience with the use of silicone products in a wide variety of industries and the benefit of this experience is freely available to all our customers.

### Patent Status

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.

### Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

### Limitations

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



## Customer Service Centers

For additional information, please contact our Customer Service Team

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