SagTex DSA silicone antifoam is a medium viscosity, highly potent antifoam emulsion that offers excellent foam control as well as excellent compatibility in a variety of surfactant concentrates and foaming systems. Compared to common silicone defoamers, it offers exceptional foam knockdown and durability, and greater compatibility in difficult surfactant systems, e.g., such as those rich in solvents and/or electrolytes.

**Key Features and Typical Benefits**

- high antifoam efficiency in surfactant-rich systems
- rapid foam knockdown
- excellent foam control at temperatures up to 95°C (203°F)
- long-term foam inhibition
- easy dispersion in all foam systems
- easy dispersion in hard water
- long durability in acid and alkaline conditions
- no oily spots or lumps when diluted with water
- compatibility with a variety of surfactant concentrates

**Potential Applications**

Textile Processes

- sizing
- scouring
- printing
- finishing

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Milky white liquid</td>
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<tr>
<td>Active Content, %</td>
<td>20</td>
</tr>
<tr>
<td>Viscosity 25°C (77°F) (LVT No. 3,30 RPM)</td>
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<tr>
<td>Emulsifier Type</td>
<td>O/W, non-ionic</td>
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<tr>
<td>Specific Gravity at 25/25°C (77°F)</td>
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<tr>
<td>pH</td>
<td>7</td>
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</table>

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SAGTEX® DSA silicone antifoam

How to Use
SagTex DSA silicone antifoam is a medium viscosity emulsion that can be easily transferred from its original package using piston pumps. Centrifugal pumps are not recommended, as they risk destabilizing, and in extreme cases, separating the emulsion. In low viscosity formulations, preliminary stability and compatibility studies must be conducted prior to formulation design.

If SagTex DSA silicone antifoam is intended to be used in surfactant concentrates (primarily surfactants, water and solvent), it is recommended that the product be dosed in as received, i.e., without any predilution. Following its addition, carry out slow to moderate mixing to ensure complete and homogenous dispersion of the antifoam. Typical levels of use range between 0.1 and 0.5% depending on the formulation and the degree of foam control required.

For process applications, we recommend prediluting SagTex DSA silicone antifoam with cold water in a ratio of 1:1 to 1:10. For high dilutions level, care must be taken to ensure stability of the dilution. Stability can be extended by adding small amounts of a suitable thickening agent, e.g., xantham gum or polyacrylates. Commercial biocides(a) containing 2-Methyl-4 Isothiazolin-3 ones and/or 2-Bromo-2-nitro-1,3-propanediol are very effective in this type of product.

A suggested starting concentration is typically between 0.1 and 2%, but this will vary depending on the severity of the foaming problem.

(a) Biocides must be used in accordance with FIFRA regulations and manufacturer’s guidelines.

Performance Data

Shake Tests
Glass bottles containing a blend of a 0.5% w/w Sodium linear-alkylbenzenesulphonate solution and 100 ppm of SagTex DSA silicone antifoam were vertically shaken using a laboratory wrist action shaker. Seven shakes were carried out; each one lasted progressively longer. (The first shake lasted less than 1 minute and the last one lasted 20 minutes.) Immediately at the end of each shake, residual foam height was recorded. Figure 1 below exhibits the results.

The data show the fast acting nature of SagTex DSA silicone antifoam, as well as its outstanding durability.

Recirculation Tests
The following test evaluates the foam control performance of SagTex DSA silicone antifoam under fully dynamic conditions. 1000 ml of a 0.5% sodium dodecylbenzenesulphonate solution is placed in a 2000 ml volumetric cylinder heated to 77°C (171°F) and recirculated. As soon as the foam reaches 1800 ml, 100 ppm of antifoam is dosed and with the recirculation on-going, the foam height against time is recorded. The recirculation test is run for 300 seconds.

The foam profile of SagTex DSA silicone antifoam indicates fast defoaming, or initial foam collapse. The high activity of SagTex DSA silicone antifoam continues to suppress foam generation and to retain foam control for long periods of time. A competitive silicone antifoam emulsion is tested for comparison.

Figure 1: Recirculation Test in 0.5% SDBS @ 77°C (171°F) Test Using 100ppm of Antifoam (as received)

Figure 2: Recirculation Test in 0.5% SDBS @ 77°C (171°F) Test Using 100ppm of Antifoam (as received)
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 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.momentive.com or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials products 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.

Emergency Service

Momentive Performance Materials maintains an around-the-clock emergency service for its products.

<table>
<thead>
<tr>
<th>Location</th>
<th>Emergency Service Provider</th>
<th>Emergency Contact Number</th>
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<tbody>
<tr>
<td>Mainland U.S., Puerto Rico</td>
<td>CHEMTREC</td>
<td>1-800-424-9300</td>
</tr>
<tr>
<td>Alaska, Hawaii</td>
<td>CHEMTREC</td>
<td>1-800-424-9300</td>
</tr>
<tr>
<td>Canada</td>
<td>CHEMTREC</td>
<td>1-800-424-9300</td>
</tr>
<tr>
<td>Europe, Israel</td>
<td>NCEC</td>
<td>+44 (0) 1235239670</td>
</tr>
<tr>
<td>Middle East</td>
<td>NCEC</td>
<td>+44 (0) 1235239671</td>
</tr>
<tr>
<td>Asia Pacific (except China)</td>
<td>NCEC</td>
<td>+44 (0) 1235239670</td>
</tr>
<tr>
<td>China</td>
<td>NCEC</td>
<td>+86-10-5100-3039</td>
</tr>
<tr>
<td>Latin America (except Brazil)</td>
<td>NCEC</td>
<td>+44 (0) 1235239670</td>
</tr>
<tr>
<td>Brazil</td>
<td>SOS Cotec</td>
<td>08000111767 or 08007071767</td>
</tr>
<tr>
<td>All other locations worldwide</td>
<td>NCEC</td>
<td>+44 (0) 1235239670</td>
</tr>
<tr>
<td>At sea</td>
<td>Radio U.S. Coast Guard in U.S. waters</td>
<td>+44 (0) 1235239670</td>
</tr>
<tr>
<td></td>
<td>NCEC in International waters</td>
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</tr>
</tbody>
</table>

For Health related calls, contact Momentive Performance Materials at +1-518-233-2500 (English only).

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.
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