

SAG™ 638 Antifoam Emulsion

Product Description

SAG 638 antifoam emulsion is an excellent candidate to consider for general purpose foam control in aqueous systems.

SAG 638 antifoam emulsion excels in applications requiring excellent knock down and durability. Remarkably small concentrations can sharply reduce the foam created, which can cut down the processing time and potentially permit maximum capacity production.

Key Features and Typical Benefits

- Outstanding and quick foam knockdown
- Excellent durability in both non-ionic and anionic surfactant systems
- Long lasting antifoam performance in acidic and alkaline conditions
- Good emulsion stability
- Readily dispersible in the foaming media

Typical Physical Properties

Physical Form	Liquid state
Appearance	Opaque white
Solid Contents, %	47
Viscosity (25 °C), cst	< 2000
Diluents	Water
Charge Characteristics	Non-ionic

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

Potential Applications

- Foam control in textile pre-treatment processes and textile print pastes
- Textile sizing and scouring agents
- Acrylic latexes and thickeners used for textiles and nonwovens
- Other chemicals and chemical processes requiring foam control

General Considerations for Use

SAG 638 antifoam emulsion can provide excellent performance as a defoamer as well as an antifoam agent. Therefore, it is recommended that SAG 638 antifoam emulsion be added to the aqueous system before the foaming process starts.

Generally, only a very low concentration of 50 - 100 ppm or 0.05 - 0.1 g/L of SAG 638 antifoam emulsion is necessary to suppress foam. However, the optimum level is really dependent upon many factors such as temperature, bath composition, viscosity or agitation of the foaming system.

Use SAG 638 antifoam emulsion as received or dilute first with water.

Mix the antifoam well before use.

Dilution: Mix 3 to 10 parts of water to 1 part antifoam emulsion and stir gently until a uniform mixture is obtained. For a long-term bulk stability of the dilution, thickener and biocides need to be added.

Dilution of Sag 638 antifoam emulsion to 15% solids

Raw Material	%
SAG 638 antifoam emulsion	32
Polyacrylic thickener (28%)	3.0
10% NaOH	1.5
Water	63.5
Biocides (preferably aqueous)	(a)

(a) Biocides must be used in accordance with local country regulations and manufacturer's label directions.

Procedure

- Charge water and polyacrylic thickener into a mixing vessel. Mix at a low speed until a whitish solution is obtained
- With agitation, add 10% NaOH slowly into the above contents; the solution will gradually thicken and turn clear
- While mixing at moderate speed, add SAG 638 antifoam emulsion and mix until homogeneous
- Add biocides and continue to mix for another 5 minutes at slow speed
- Check pH and viscosity

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 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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