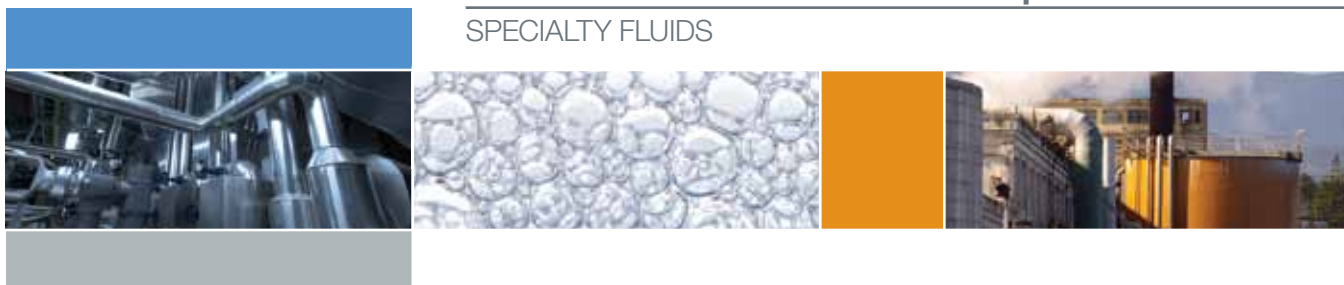


SAG* 471

silicone antifoam compound

SPECIALTY FLUIDS



SAG 471 antifoam is for use in both aqueous and non-aqueous systems, imparting outstanding durability in the control of foam over time. Highly effective (even at low concentrations), it offers cost-efficient foam control for a variety of applications including aerobic fermentation processes. In select aerobic fermentation processes, SAG 471 antifoam is an excellent candidate to consider when seeking good performance following sterilization.

Key Features and Typical Benefits

- Maximization of fermentor capacities
- Excellent durability
- Excellent foam control performance in fermentation processes
- Self-dispersing in water
- Stability under sterilization
- Autoclavable

Typical Physical Properties

Appearance	Translucent white
Active Ingredient Content, %	100
Specific Gravity, 25/25°C	0.993
Viscosity at 25°C (after stirring), cP	2500
Shelf Life, months	24
Suitable Diluent	Water, process liquid

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

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How to Use

SAG 471 antifoam may be used as received or diluted first with a process liquid (Table 1). Mix the product upon opening to assure uniformity and maximize results.

- Dilution: Mix 3 to 10 parts of the process liquid to 1 part antifoam; stir gently until a uniform mixture is reached. Ensure product uniformity over long storage periods by gentle periodic mixing.
- For maximum cost-effectiveness: Predilute the antifoam and add continuously at a process segment prior to foaming.
- We suggest starting concentrations of 10 to 200 ppm.

Table 1: SAG 471 Antifoam Concentrations and Parts per Million Equivalents

Concentration of SAG 471 Antifoam (from container)	Parts per Million SAG 471 Antifoam (as received)
4 pints in 500 gallons	= 1000
1 gallon in 2,000 gallons	= 500
1 gallon in 10,000 gallons	= 100
2.5 gallons in 50,000 gallons	= 50

Conversion Factors: 1 gallon = 3.785 liters; 1 pint = 0.4731 liters
Test data. Actual results may vary.

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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.

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