

SAG™ 5693 Antifoam

Description

SAG 5693 antifoam is a one hundred percent active antifoam. That performance combined with a minimal effect on oxygen transfer makes SAG 5693 antifoam an excellent candidate for specialty applications ranging from aerobic mold and fungal fermentations to hydraulic fluids to soluble cutting fluids.

Key Features and Typical Benefits

- Maximum fermentor throughput
- Excellent foam control performance in aerobic fermentation processes
- Low oxygen transfer suppression in fermentation processes
- Good solubility in lard/soybean/vegetable oils
- Easy to use
- Autoclavable
- Halal Certified ⁽¹⁾

(1) This product is produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). This product is in compliance with the halal requirements under Islamic laws.

Typical Physical Properties

| | |
|---|-----------------------|
| Appearance | Colorless |
| Active Ingredient Content, % | 100 |
| Specific Gravity, 25/25 °C | 1.002 |
| Viscosity at 25 °C (after stirring), cP | 350 |
| Shelf Life, months | 24 |
| Suitable Diluents | Process liquids, oils |

Potential Applications

SAG 5693 antifoam is an excellent candidate to be considered for use in fermentation processes including in mold and fungal fermentations. It also has application in sugar beet processing and yeast fermentation.

General Considerations for Use

SAG 5693 antifoam may be used as received or diluted first with the process liquid. Mix the antifoam upon opening the package to maximize results (Table 1).

- 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 SAG 5693 antifoam and add continuously at a process segment prior to foaming.
- We suggest starting concentrations of 10 to 200 ppm.

| Concentration of SAG 5693 antifoam (from container) | Parts per Million SAG 5693 antifoam (As received) |
|--|--|
| 4 pints in 500 gallons | =1000 |
| 1 gallon in 2000 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 = 0.473 liters

Regulatory Compliance

FDA

Compositionally compliant with 21 CFR 173.340 and is appropriate for consideration for use as a defoaming agent used in the processing of beet sugar and yeast in accordance with the conditions specified and limitations imposed by this regulation. Please consult the FDA regulations for specifications and limitations, which may apply. The customer has the sole responsibility for determining that their product complies with all applicable FDA specifications and limitations and is fit for food contact use.

Kosher Certification

Manufactured under the supervision of the Kashruth Division of the Union of Orthodox Jewish Congregations of America, and is kosher and pareve when bearing the O.U. symbol of certification on the label. The product is kosher for Passover.

Halal Certified

This product is produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). This product is in compliance with the halal requirements under Islamic laws.

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.

Contact Information

Email

commercial.services@momentive.com

Telephone

| Americas | Latin America | EMEAI- Europe, Middle East, Africa & India | ASIA PACIFIC |
|-------------------------|----------------------|---|---------------------|
| +1 800 295 2392 | Brazil | Europe | China |
| Toll free* | +55 11 4534 9650 | +390510924300 | 800 820 0202 |
| +704 805 6946 | Direct Number | Direct number | Toll free |
| Direct Number | | | +86 21 3860 4892 |
| | | | Direct number |
| *All American countries | Mexico | India, Middle East & Africa | Japan |
| | +52 55 2169 7670 | + 91 44 71212207 | +81 3 5544 3111 |
| | Direct Number | Direct number* | Direct number |
| | | *All Middle Eastern countries, Africa, India, | Korea |
| | | | +82 2 6201 4600 |

For literature and technical assistance, visit our website at: www.momentive.com

DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and

perform all tests and analyses necessary to assure that its finished parts incorporating Supplier's products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

*SAG™ is a trademark of Momentive Performance Materials Inc.

The use of the "™" symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.