

FOAM CONTROL IN WASTEWATER TREATMENT

WASTEWATER TREATMENT SOLUTIONS

Foam can negatively impact overall process efficiency, reducing throughput and causing spills. These spills can lead to personal injury and property damage; and cleaning up can be time-consuming and labor intensive.

Momentive's foam control solutions enhance water quality by ensuring that wastewater systems and treatment processes operate at optimum efficiency at all times.

In Activated Sludge Process (ASP) systems, continuous or intermittent dosing of Momentive's foam control solutions in the aeration tank will ensure that foam does not persist, and as a result, oxygen transfer and microbial efficiency is maintained.

In Sequential Batch Reactor (SBR) systems, strategic addition of Momentive's foam control solutions into the aeration phase will not interfere with the solid-liquid separation in the settling phase.

KEY FEATURES & TYPICAL BENEFITS

Momentive offers advanced foam control solutions for wastewater treatment, including silicone-based emulsions with varying active content and a 100% organic alternative technology. These solutions are highly efficient, requiring dosage levels as low as 10 ppm.

- **Chemical Oxygen Demand (COD):** Momentive's range of silicone-based antifoams is chemically inert and does not easily oxidize, resulting in only a negligible increase in COD when used at appropriate dosages.
- **Biological Oxygen Demand (BOD):** Momentive's silicone-based antifoams are not readily biodegradable; therefore, they do not interfere with the bacterial processes that reduce BOD, making them ideal for biological treatment processes where maintaining healthy microbial activity is crucial.
- **Certifications:** Momentive's foam control solutions are certified Kosher by the Manchester Beth Din (UK) and approved by the Halal Food Authority.



PRODUCT CONSIDERATIONS

This guide provides a summary of Momentive's SAG™ and Esca™ products, which are recommended for wastewater treatment. It includes the benefits and features of each product to assist in selection. The dosage range guide is based on laboratory application data and customer testimonials. We recommend evaluating these products prior to use to determine the best selection and optimize dosage, considering the wide range of possible plant conditions.

SELECTION GUIDE

PRODUCT	VISCOSITY (CP)	DOSAGE RANGE (PPM)	BENEFITS AND FEATURES
SAG™ TS ANTIFOAM	1,600 - 2,400	20 - 200	Silicone-based emulsion which provides effective knockdown and excellent durability over a broad range of pH, temperature, and shear conditions.
ESCA™ PRO-E ANTIFOAM	500 - 3,500	100 - 500	Silicone-based emulsion recommended as a processing aid. Approved Kosher Parev by the Manchester Beth Din and certified Halal by the Halal Food Authority.
ESCA™ FDP ANTIFOAM	500 - 4,000	100 - 500	Silicone-based emulsion with rapid dispersion properties. Approved Kosher Parev by the Manchester Beth Din and certified Halal by the Halal Food Authority.
ESCA™ PRO ANTIFOAM	1,000 - 3,500	50 - 250	High-active, silicone-based emulsion providing rapid foam knockdown. Approved Kosher Parev by the Manchester Beth Din and certified Halal by the Halal Food Authority.
SAG™ INDAPRO-E ANTIFOAM	600 - 4,000	100 - 500	Low active, silicone-based emulsion developed specifically for effluent treatment.
ESCA™ NVD ANTIFOAM	40 - 150	100 - 500	This easily dispersible, vegetable oil-based concentrate provides exceptional foam control in demanding applications. It is certified Kosher and Halal by the respective authorities.

GENERAL INSTRUCTIONS FOR USE

The recommended usage levels for a product depend on its active content and the specific application it is used in. For maximum performance, the dosing strategy for each product must be carefully considered. Products based on organic actives should be used as antifoams, added before foam is generated. Silicone-based antifoams can be added as antifoams before foam generation or during processing as defoamers to rapidly knockdown foam.

In most applications, once the processing cycle is complete, any residual antifoam can be removed by filtration or mechanical centrifuge, together with other insoluble materials.

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.

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.

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 registered trademarks of Momentive

Copyright 2025 Momentive Performance Materials Inc. All rights reserved.

MOMENTIVE[®]
SOLUTIONS FOR A SUSTAINABLE WORLD™

CONTACT INFORMATION

For product prices, availability, or order placement, contact our customer service by visiting www.momentive.com or emailing commercial.services@momentive.com