

FOAM CONTROL AGENTS

OIL & GAS SOLUTIONS



Silicone antifoams are extensively used in the oil and gas industry where they have demonstrated their ability to effectively control foam in a variety of applications. These applications include gas/oil separators, gas sweetening, well drilling, well completion, refineries, butadiene units, and diesel fuel.

Momentive Performance Materials Inc. (Momentive) offers a new generation of **SAG™ silicone antifoams**. These antifoams have demonstrated very high effectiveness at low dosages, stability in extreme weather conditions, easier handling, improved compatibility, and stability to provide better overall performance in many oil and gas applications.



KEY FEATURES AND TYPICAL BENEFITS

Water-Based Foams

- Rapid foam knockdown
- Stability/compatibility in high ionic strength solutions, leading to durable effect and long intervals between maintenance shutdowns
- Capable of being formulated to withstand extreme climates
- Can deliver excellent foam control at low silicone loading in the system
- Excellent deaeration performance

Non-Aqueous Foams

- Can deliver outstanding foam control at low treat rates, allowing for large throughputs
- Deaeration as well as foam destruction can help result in maximum gas extraction, cleaner flares, increased productivity, and reduced gas carry-under
- Can help address sustainability concerns
- Low viscosity - easy to handle
- Combines foam control with packaging compatibility for refined grades
- Can provide effective foam control where other antifoams may fail
- Can act as demulsifiers at the same time
- Typically delivers excellent foam control with low silicone loading in the system

MOMENTIVE ANTIFOAMS

Water Based Foams					Non-Aqueous Foams			
Well Drilling & Completion	Gas Treatment	Water Re-Injection	Refinery Operations	Glycol Scrubbing	Gas/Oil Separators	Refinery Operations	Delayed Cokers	Refined Products
SAG 831	SAG 7133	SAG 10	SAG 831	SAG 7133	Silbreak™ 638	FF160	Element14 Oils	Silbreak 638
SAG 10	SAG 831	SAG 831	SAG 7133	SAG 831	Silbreak 327	FF170		SAG TP 325
SAG TS	SAG 220	SAG TS	SAG 10		FF160	FF190		SAG TP 345
					FF170	Element14 Oils		
					FF190			
					Element14™ Oils			

ENVIRONMENTAL REGULATIONS

The offshore petroleum industries in the North Sea are subject to the **Offshore Chemical Notification Scheme (OCNS)**¹, currently the strictest regulations for offshore chemical usage in the petroleum industry worldwide.

The OCNS ranks chemical products proposed for use in the North Sea according to their Hazard Quotient (HQ). It designates products with the lowest HQ as Gold Banded and does not require users of such products to consider substitution of alternatives for such products.

Momentive's Silbreak 327 and Silbreak 638 silicone foam control agents are excellent solutions to consider for use in the North Sea. They are:

- Biodegradable according to OECD 306
- Non-bioaccumulative according to OECD 117 HPLC
- Non-toxic to certain marine organisms²

Microtox® - 15 Minute Multiple Concentration Acute, Static, EC50 Bioassays

Microtox is a standardized toxicity test system which is rapid, sensitive, reproducible, ecologically relevant, and cost effective.

In the United States, it is a recognized test method in a number of federal programs. Microtox is similarly recognized in Canada, the United Kingdom, Germany, Sweden, Australia, and the Netherlands.

Microtox testing was conducted on SAG 831 antifoam to determine and assess toxicity of the fluids. The following were the EC50 values of the test articles at 15 minute exposure:

Test Article	Threshold Level (EC50 -15 Minutes) L/m ³
SAG 831 antifoam	2.4

1. The OCNS is regulated in the UK by the Department of Energy and Climate Change using scientific and environmental advice from the Centre for Environment, Fisheries & Aquaculture Science (Cefas) and Marine Scotland. In the Netherlands, the OCNS is regulated by the State Supervision of Mines with scientific and environmental advice from Cefas and Netherlands government agencies.

2. Algae (test method ISO/DIS 10253), crustacea (ISO TC 147/SC5/WG2), fish (PARCOM Protocol 1995 part B) and sediment reworker (PARCOM Protocol 1995 part A).

CONTACT INFORMATION

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

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SOLUTIONS FOR A SUSTAINABLE WORLD

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