

ANTI-FOAM SOLUTIONS FOR AGRO FORMULATIONS

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ABOUT FOAM CONTROL

In agrochemical formulations, different surfactant types are used to get specific and desired function such as wetting, emulsification, dispersing, etc. Many of these surfactants tend to form and stabilize the foam.

Foaming can occur while manufacturing or packing but the most important problem is foam formation during the production process. Also the presence of foam gives a bad impression of the process in the eyes of a customer.

In order to find the ideal solution for these problems, it is necessary to know the causes of foaming, parameters of foaming systems and anti-foam mechanism very well.

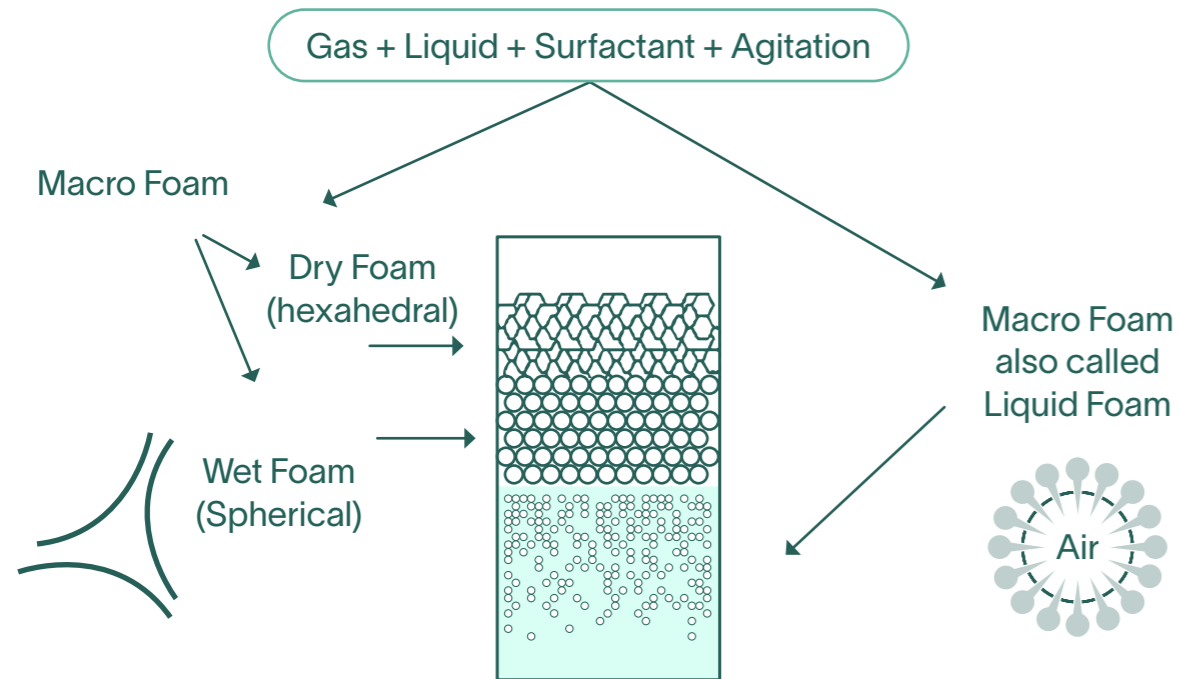
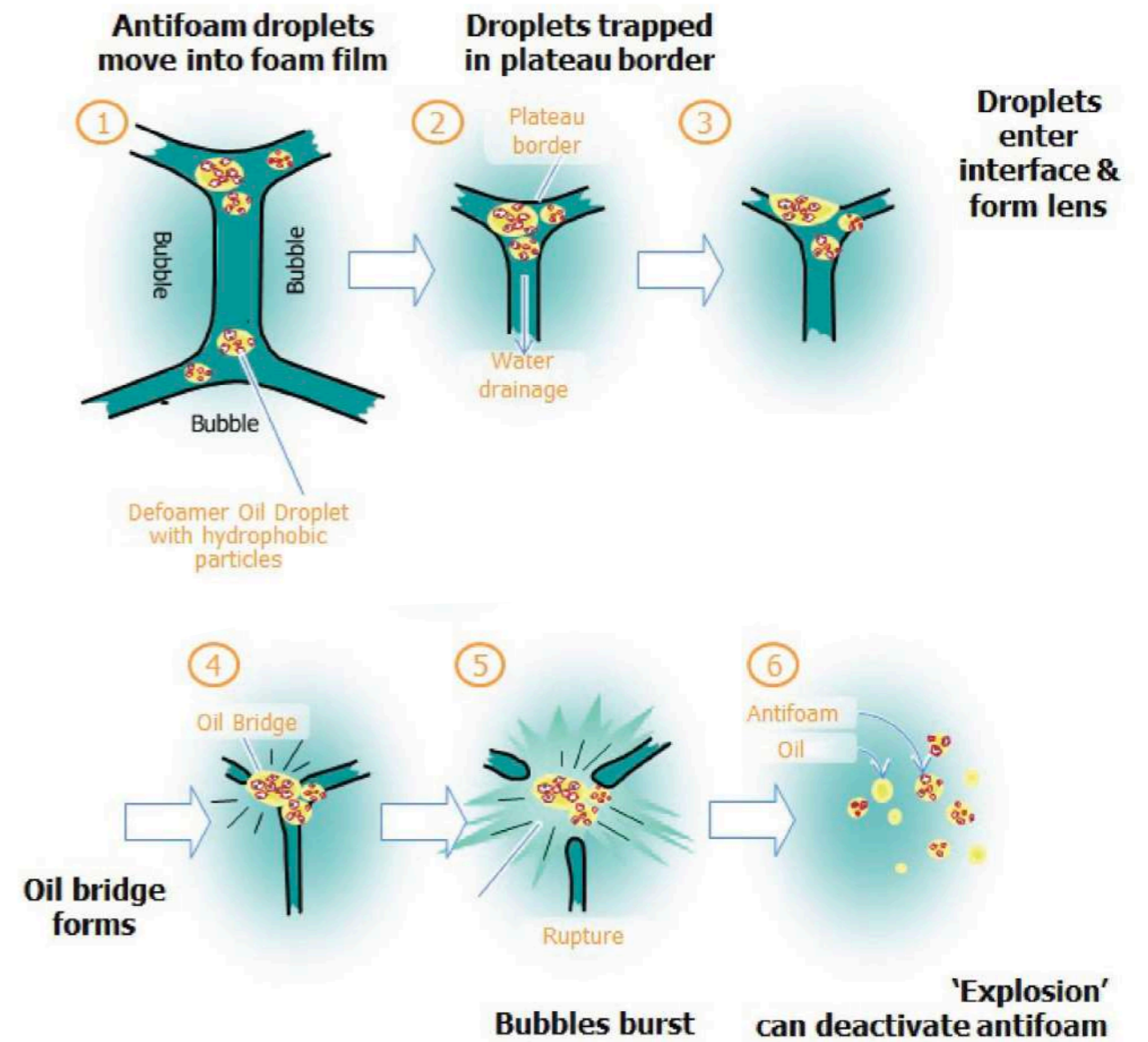


Figure 1: Macro and micro-foam.

Antifoam Mechanism

According to this mechanism, antifoam globules are compressed by the walls of shrinking Plateau borders as a result of water drainage from the foam. Eventually the globules enter the walls of Plateau borders causing rupture of the neighboring foam films.

Figure 2: Antifoam Mechanism



Do you know the types of Antifoam Agents?

- DE-foaming = knock-down of existing foam
- ANTI-foaming = prevention of foam formation
- De-aeration = coalescence of (micro) bubbles
- Foam Control Agent = like detergency



How do we know which antifoam to use?

- To obtain the best antifoam for your process, consider the following questions:
- Is the system aqueous or nonaqueous?
- If the system is aqueous, what is the pH?
- What is the temperature of the foaming system?
- Is there agitation? If so, what type?
- What is the volume or batch size of the foaming material?
- What defoamer are you using now?

In summary, you should describe your process and explain where it foams. And do not forget that proper antifoam for the formulation is very important.

MAXANT® ANTIFOAM AGENTS

Latro can provide many different antifoam solutions for many different agro formulations thanks to our experience of surfactant and silicone chemistry. With our extensive knowledge of antifoam mechanisms, we developed different types of antifoam agents depending on the formulation types.

Maxant® new generation silicone based antifoams provide durable foam control, allowing formulators to improve productivity and preventing time loss for farmers. Also Maxant® antifoams have excellent compatibility in a variety of surfactant concentrates and foaming systems.



Key features of Maxant® Antifoams

- Rapid foam knock-down
- Excellent foam control and durability
- Excellent compatibility in a variety of surfactant concentrates and foaming systems
- Easily dispersible in hard water and all foaming system.
- Stays clear in different formulations
- High stability in various foaming systems
- No oily spots or agglomerates when diluted with water

	Maxant® SL	Maxant® VRP	Maxant® PRO
Chemical Base	Polydimethylsiloxane	Polydimethylsiloxane	Polydimethylsiloxane
Formulation Type	%10 / O/W Emulsion	%30 / O/W Emulsion	%100 / Compound
Viscosity	~ 300 cp	~ 500 cp	~ 1000 cp
Working pH range	5-9	5-9	5-9
Target Applications	SL formulations	SL, SC formulations	All kinds of water based formulations
Key Properties	Very good foam control and durability Causes no cloudiness in SL formulations	Very good knock-down and durability Causes no cloudiness in SL formulations	Excellent knock-down, foam control and durability

Latro Better Solutions for a Better World!

In order to make agriculture more sustainable, resources in the nature should be used more efficiently.

As Latro, we develop eco-friendly chemicals that aim to increase efficiency and decrease the consumption of natural resources. In this way, we contribute to a sustainable agriculture that can meet the needs of the rapidly increasing world population.



LET'S CREATE NEW POSSIBILITIES TOGETHER!

Latro is an ecosystem with a holistic perspective along the whole value chain, guided by our expertise and customer-first mentality.



introduction video



The experimentation at the heart of chemistry inspires us to create new possibilities with extraordinary solutions. Our purpose and values are the key driving force behind the continuous improvement of our products, processes and solutions. With this mindset, we are not only supplying raw materials, but also solving current and future's problems.

Adopting different approaches in the face of challenges distinguished us. Our Ministry of Industry and Technology-accredited R&D Center, is the confluence of our innate creativity with our technical know-how. We offer a wide range tailor-made solutions such as new product development, technical support and process consultancy.

Latro offers a wide range of innovative solutions for Agriculture industry. We are supporting our customers by creating tailor-made formulations and making various performance tests in our application laboratory. Our main goal is to create value-added and cost-effective products by following the market and customer needs.



Disclaimer

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