



## Your biostimulants deserve quality packaging

Whether you are a manufacturer of biostimulants or a packaging supplier, we at Gore are here to support you.

Rely on our experts for engineering as well as individual lab testing. Consult with us to find the most appropriate venting solution for your particular set-up or to assist with troubleshooting. Make use of our global network of sales representatives for fast, easy and very convenient purchasing. Talk to us! Let us help you make your packaging safer for both your product and your brand.

Contact us right away:  
packvent@wlgore.com  
Phone: +49 89 4612 2211

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**GORE® Packaging Vents**  
for Biostimulants



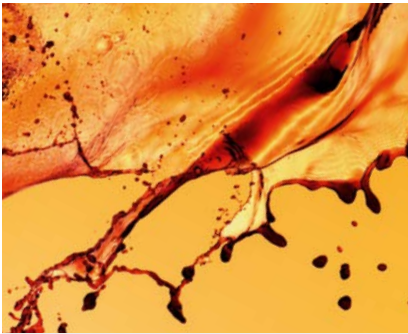
# SPILLS ONLY LOOK PRETTY IN ADVERTISING.

Keep your brand image clean.  
No leaks, no bloating for  
biostimulants packaging.

*Together, improving life*



# GORE® Vents for liquid biostimulants packaging: Say goodbye to ugly spills



## The Science behind the Solution

GORE® Packaging Vents incorporate a high-performance membrane, specifically developed to meet the needs of biostimulants products packaging. The membrane allows for constant pressure equalization, keeping the packaging in perfect shape, even when used with highly off-gassing formulations. It continues to vent after liquid contact, which makes it ideal for use with high-viscosity liquids.

**Proven performance – with hundreds of millions of vents installed world-wide.**

Liquid biostimulants are an innovative and valuable solution that can help farmers meet increasingly challenging sustainability targets without compromising on yield. Biostimulants are of great help when it comes to reducing the use of pesticides and chemical fertilizers. Little wonder that the market for them continues to grow: As demand rises, manufacturers invest massively in R&D to come up with the most efficient formulations that increase productivity for their customers. The result of these development efforts strive to be of great quality – and they deserve packaging solutions that are up to this standard.



## Biostimulants: A special product

What makes biostimulants so great, also makes them particularly challenging for the packaging industry: Their organic formulation components contain active ingredients that will ferment and release gases in the process.

Failure to manage the off-gassing process leads to bloated and leaking containers. Since biostimulants are based on organic matter, the amount of gas to be released may vary from lot to lot, which makes the process even more difficult to control.

Transportation adds another layer of complexity. Often shipping conditions are beyond the manufacturers control. Bloating or collapsing containers due to challenging transport conditions, such as rapid changes in temperature or altitude, are not a rare occurrence.

With all this in mind, the question is: How do you simply adjust your packaging instead of modifying your formulas?

## Protect your product, protect your brand

- Avoid leakage
- Keep your packaging safe and clean
- Protect your brand image
- Enhance your product value!

# Innovation and experience: GORE Membranes for safe packaging

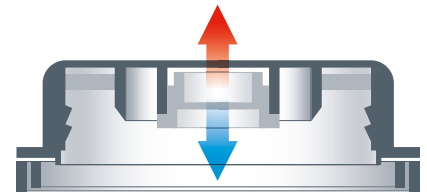
For over 20 years we've helped hazardous chemical and agrochemical manufacturers overcome their off-gassing packaging challenges. Viscous and sticky low surface tension formulations, like foliar biostimulants, represent unique challenges for packaging integrity during both storage and transportation. Gore provides premium quality membrane solutions that in some cases allow for a reduction in packaging weight, enabling thinner container walls and safely managing off-gassing. This can add an additional layer of sustainability to your product – a big plus in times of increasing interest in solutions that are easier on the environment.

## Always the right vent for your biostimulants

The new 383G/384G Foam Liners compliment our existing offerings: Plug-In Vents and Induction Liners integrated with our high airflow SG5 laminate. This puts three packaging solutions at your disposal that optimally address the most common and troublesome challenges biostimulant packaging comes with. Specifically developed for highly off-gassing formulations, the GORE Membrane allows gases to pass through constantly equalizing pressure, avoiding container bloating and leaking, and thus preventing those ugly spills.

## GORE® Vents provide higher packaging safety, integrity as well as design flexibility.

- Specifically designed for highly off-gassing and sticky formulations
- Proven performance with hundreds of millions of vents installed worldwide
- One venting solution across bottles and jerry cans



### In direct comparison: higher airflow, no spills

A comparison with a standard product shows that one vent leaked just 8 days after liquid contact due to pressure buildup, caused by poor repellency. The GORE D17 SG5 vent's airflow remained higher – even after liquid contact.

