



Improve quality, efficacy and safety

Liquid applications and services
for feed producers



Adding high-quality liquid ingredients to your feed

How can you improve animal feed quality, efficacy and safety, and at the same time foster a healthy, sustainable and profitable business?

Agribusiness professionals around the world use feed additives to supplement nutrients and enhance digestion to improve the quality of feed raw materials and compound feed.

These additives, either in dry or liquid forms, offer a wide array of benefits for raw material quality preservation and feed quality & safety.

Kemin liquid solutions in particular, have set the standards high. With science-backed liquid additives and a dedicated service offering we give nature a hand. Implementing a liquid solution, however, may create barriers and add other complexities.

To achieve the best results possible when turning to liquid additives, proper product application and particle distribution is critical.



A number of concerns may arise when applying liquid products:

- How do I technically integrate an application system into my highly specific business operations?
- How do I operate the system correctly?
- How do I ensure homogeneous liquid distribution?
- Who can I turn to for professional support?

At Kemin, we help you overcome all these barriers by offering you a unique combination of a highly efficacious product, expertise and technology.

Liquid additives are only one part of the solution. Our extensive services help you implement them in the most effective way possible.



liquiSMART, your one-stop solution



In addition to high-quality liquid additives, producers are looking for technical and lab services to back up these products. They need automated application technology which ensures excellent product distribution and ease of use.

These business demands illustrate that liquid additives alone do not help them achieve their goals without proper equipment and the lab support to verify correct application.

It is true that producers thrive on the benefits liquid additives bring to their operations:

- ease of application
- consistency in application
- high efficacy
- less manual handling
- less packaging to dispose

But without extensive professional support, it is a challenge to implement them in the most effective way possible.

That's why we have strengthened our commitment to our customers.

Kemin's pioneering liquid solutions are available in over 60 countries, showcasing the fact that Kemin provides excellent products and innovative application technology around the world.

However, Kemin is not only a provider of liquid feed additives. With the liquiSMART program we are also a reliable partner, an experienced advisor, a helping hand, offering our customers peace of mind.



The liquiSMART full solution package

liquiSMART

equals

High-quality liquid additives

with

A full set of professional services:

SMART advisory team

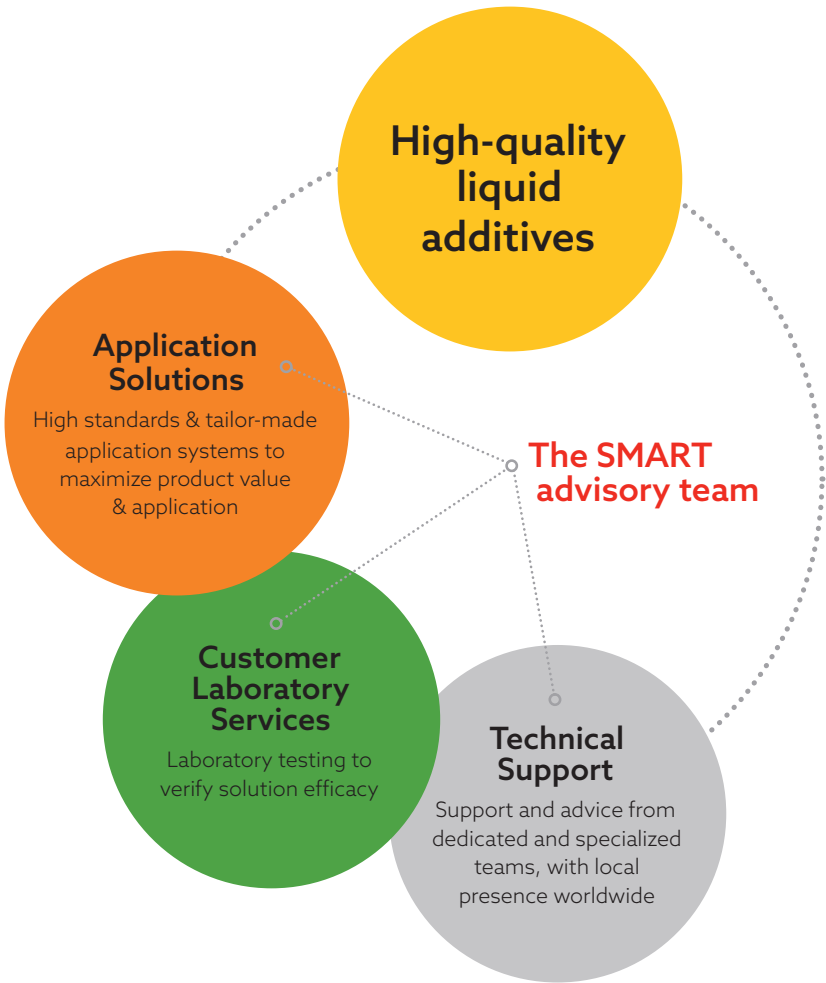
This approach allows us to tailor our liquid solutions to our customers' relevant needs.

With success. Thanks to liquiSMART's unique custom end-to-end solutions for raw materials, feed mills and forages, our customers' lives have become easier and more profitable.

What do you need?

How does it work?

Each liquiSMART application solution comes with in-depth support from our SMART advisory team. This team of experienced experts is stationed around the globe and can quickly respond to customer requests to assure the efficacy and performance of our products. They bring the Kemin expertise to every step of the application process in your organization.



Improving production profitability while enhancing safety, quality and consistency, and reducing variability of feed producers' businesses.

Application Solutions

Your business and field of expertise are unique. Therefore, you require customized equipment, training and education to ensure our liquid products provide the effectiveness you desire.

Steps involved in a typical project from Application Engineering perspective:

- 1. Survey by local engineering team
- 2. Detailed offer that fits your needs
- 3. Design a tailor-made application solution
- 4. Assembly in regional workshop
- 5. Installation on site

After the installation, you can rely on our dedicated team of local service engineers for:

- 6. Start-up support
- 7. Operator training
- 8. Troubleshooting
- 9. Maintenance and support
- 10. Ongoing training

Our SMART advisory team assists you to utilize the Kemin products and application equipment to the best extent, ensuring optimal efficacy, safety and productivity.

WHERE: identify the ideal application point

WHEN: dose at the correct time

DISTRIBUTION: reduce variation and assure uniform liquid distribution thanks to the Kemin nozzle technology

Fully digital and intelligent systems

Dynamic online sensors, intelligent software and digital dashboards generate real-time process insights - that's the future we are implementing.



Customer Laboratory Services

Do you require science-based proof of how the liquiSMART program is helping you solve your business challenges?

Our technologically advanced laboratory team may help you with:

- microbiology related tests
- quantitative PCR techniques
- diverse chemical and physical tests
- lab scale simulation trials
- shelf-life studies
- advanced method, ingredient and product development

Technical Support

Looking for technical support, or fast troubleshooting? More information about recommended product usage and inclusion rates?

Our technical services team is located across the region to give immediate support regarding:

- protocol development and trial coordination
- regulations for feed ingredients worldwide
- performance optimization
- inclusion rates for your changing needs
- risk assessment
- process scale-up testing

Interested in liquiSMART for your business?

We are always happy to discuss the benefits it brings for you in detail.

With the elaborate services our SMART advisory team provides, your products and business reach their full potential.

Kemin Industries, transforming the quality of life

Kemin Industries is a global manufacturer providing local, innovative nutritional and health solutions for a changing world. We strive to sustainably transform the quality of life every day for 80% of the world with our products and services.

With liquiSMART we focus on adding value to the operations of professionals active in the agribusiness by combining superior liquid application products with extensive application services, laboratory services and technical support.

specSMART™

Raw material handling
& processing:
preserve the quality of oilseeds,
cereals and grains

millSMART™

Feed milling:
improve feed quality by enhancing
mill efficiency and preventing
mold, controlling pathogens and
optimizing nutrient absorption

foragSMART™

Forage treatment:
preserve the quality of
hay and silages during
storage

Kemin Animal Nutrition and Health

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