

# ADVANCED SULFUR MANAGEMENT SOLUTIONS FOR **AGRICULTURE** OPERATIONS



**BROADTREAT™**





## INTRODUCTION

### Why H<sub>2</sub>S and Mercaptans Matter in Agriculture

Hydrogen sulfide (H<sub>2</sub>S) and mercaptans (thiols) are common by-products in agricultural, wastewater, and industrial operations. These gases create significant challenges—posing risks to worker safety, generating persistent odors, and accelerating corrosion of valuable equipment and infrastructure.

Our advanced treatment technology eliminates odors and neutralizes sulfur-based gases directly at their source. Unlike many traditional chemical treatments that rely on harsh or hazardous reagents, our solution is designed to be **safe, non-toxic, and environmentally responsible**, while still delivering powerful performance.

By converting harmful sulfur compounds into stable, non-hazardous forms, our product helps facilities **improve workplace safety, reduce odor complaints, protect assets, and maintain reliable operations.**

#### PRODUCT

#### ADVANTAGES

- *Non-corrosive, non-toxic*
- *Eliminates odor*
- *Freezeproof to -40°C*
- *Cost-saving & materials compatible*
- *Steam compatible (thermally stable to 250°C)*
- *Biodegradable & zero aquatic impact*

## ADVANTAGES & VALUE PROPOSITION

### Why Choose BROADTREAT™ Solution?

- ✓ **Next-Generation Safety Standard**  
Safest replacement alternative to hazardous triazine scavengers and caustic chemicals which reduces handling risks.
- ✓ **Industry-Leading Odor Abatement**  
Outperforms other non-toxic solutions in controlling and eliminating sulfur-based odors.
- ✓ **Advanced Materials Compatibility**  
Safely works with stainless steel, copper, plastic and other common industrial surfaces without causing corrosion or damage.
- ✓ **Significant Chemical Reduction**  
Can reduce chemical usage by up to 40x, lowering operational costs, storage requirements, and carbon footprint.
- ✓ **Superior Equipment Protection**  
Prevents corrosion in tanks, pipelines, and process equipment, extending asset life and reducing maintenance downtime.
- ✓ **Regulatory & Environmental Excellence**  
Simplifies compliance with safety and environmental standards, supporting ESG initiatives and sustainable operations.
- ✓ **Optimized for Safe Operations**  
Non-toxic, non-corrosive formulation that enhances workplace and environmental safety.
- ✓ **Certified Safety Leader**  
Kaliber Chemicals has developed and implemented a comprehensive occupational health and safety program, meeting the high standards of Energy Safety Canada's Partnerships in Safety program. This recognition reflects our ongoing commitment to protecting employees, contractors, and operations while maintaining industry-leading safety practices.



**Contact us today** to implement a tailored H<sub>2</sub>S and mercaptan treatment program for your **agricultural** operation.

 +1 (877) 525 - 4237

 [kaliberchemicals.com](http://kaliberchemicals.com)



## AGRICULTURE PROCESSING PLANTS

### H<sub>2</sub>S and Mercaptan Control

Crop processing, ethanol and biofuel production, oilseed crushing, and fertilizer manufacturing can generate hydrogen sulfide (H<sub>2</sub>S) and mercaptans during storage, fermentation, distillation, and chemical processing. These gases may accumulate in tanks, storage areas, and processing equipment—causing strong odors, worker safety risks, and corrosion of valuable infrastructure.

Our safe, non-toxic chemical treatment neutralizes sulfur gases at the source, providing an effective alternative to harsh or hazardous scavengers. When used alongside ventilation, monitoring, and scrubbing systems, it helps facilities eliminate odors, protect equipment, maintain product quality, and ensure safer, more efficient operations.

#### KEY BENEFITS

*Eliminates the need for both caustic and bleach. Replaces hazardous chemicals with a safe-to-handle formulation. Reduces chemical deliveries and storage requirements by 40X, lowering your carbon footprint. Enhances workplace and environmental safety with low-toxicity, biodegradable chemistry. Supports ESG objectives through reduced emissions.*



## LIVESTOCK MANURE MANAGEMENT

### Livestock Barn Gas Control

Decomposition of manure and urine in hog, pig, and poultry barns can produce hydrogen sulfide (H<sub>2</sub>S), ammonia, and other odorous gases, especially in poorly ventilated or confined areas. These gases create strong odors, pose respiratory risks to workers, and can negatively affect animal health.

Our safe, non-toxic chemical treatment neutralizes these harmful gases at the source, complementing ventilation, biofilters, and misting systems. When applied proactively, it reduces odors, protects workers, minimizes respiratory irritation for animals, and helps maintain a healthier, more comfortable environment for livestock, all while supporting efficient, compliant barn operations.

### KEY BENEFITS

*Improved air quality, safer work environment, reduced stress for animals, higher productivity.*



## COMPOSTING & ANAEROBIC DIGESTERS

### Composting & Digester Gas Control

Anaerobic breakdown in composting piles and digesters produces hydrogen sulfide (H<sub>2</sub>S) and mercaptans, which can create strong odors, accelerate equipment corrosion, and generate community complaints. Without effective control, these gases can compromise biogas quality and operational efficiency.

Our safe, non-toxic chemical treatment neutralizes sulfur gases at the source, complementing gas scrubbing, biofilters, and aeration. By reducing H<sub>2</sub>S and mercaptans, it **protects equipment, improves biogas quality, enhances odor control, and supports better community acceptance**, all while maintaining cleaner, safer composting and digestion operations.

#### KEY BENEFITS

*Cleaner biogas, less equipment corrosion, higher-quality compost, reduced odors, and stronger community acceptance.*

## Serving Western Canada & Beyond

With a strong operational presence and distribution network, we deliver responsive service and dependable supply across key production regions.



### Head Office

Suite 1400, 550 6th Avenue SW  
Calgary, AB T2P 0S2



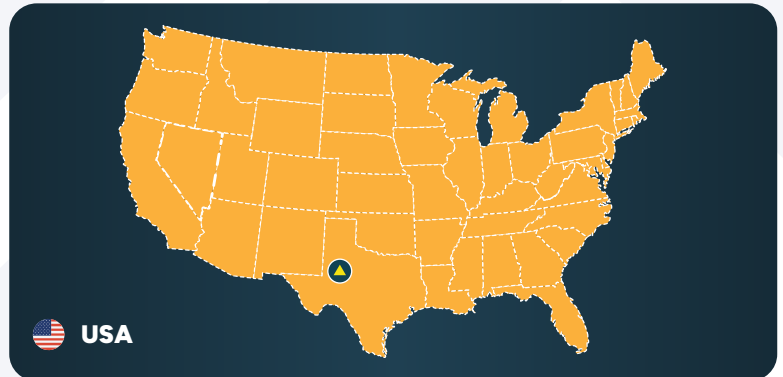
### Field Office

Yellowhead Business Center  
Suite B, 6209 - 44 Street  
Lloydminster, AB T9V 1V8



### Distribution Centers

- Red Deer, Alberta
- Thorsby, Alberta
- Grand Prairie, Alberta
- Shaunavon, Saskatchewan
- Midland, Texas



## SAFETY PARTNERS



ENERGY  
SAFETY  
CANADA



complyworks

SiteDocs

## PROCUREMENT PARTNERS

ENVERUS  
OpenInvoice

ENVERUS  
Workbench

coupa

PANDELL JOBOTRAX