

BROADTREAT™

# Advanced Sulfur Management Solutions

A safe, economical method  
for desulfurization and  
environmental protection.



# BROADTREAT™

Kaliber Chemicals sets the standard for sulfur management solutions. As experts in sulfur treatment, we collaborate with industrial operators to manage H<sub>2</sub>S and mercaptans effectively reducing operational costs, enhancing workplace safety, and eliminating harsh odors.

## Description

**BROADTREAT™** is a flagship line of chemical solutions used for sweetening, odor control, and biofilm management. Engineered for safety and cost-efficiency, **BROADTREAT™** effectively neutralizes volatile organic sulfur compounds (VOSCs) including hydrogen sulfide (H<sub>2</sub>S) and mercaptan odors (ethyl and methyl).

## Properties

- Non-toxic. Non-corrosive.
- No foul smell. No headaches.
- Biodegradable and low aquatic impact.
- Fast reaction with H<sub>2</sub>S and mercaptans in both liquid and vapor phases.
- Broad-spectrum control of aerobic, anaerobic, and sulfate-reducing bacteria.
- Fully compatible with a range of materials.
- High temperature thermal stability up to 250 °C. Freeze proof to -40 °C.
- Available in liquid form for easy handling and dosing, compatible with various dosing systems.
- Versatile in hydrocarbons, water, and mixed-phase systems.
- Non-regulated, non-dangerous good for transport under TDG.

## Benefits

- **The Safest Replacement for Hazardous Scavengers and Caustics.** Setting a new industry standard, this product is the safest alternative in the market to replace hazardous triazine scavengers and caustic chemicals. Its non-toxic formulation provides maximum protection for human and process safety.
- **Proven to Cut OpEx Costs and Optimize Operational Efficiency.** Designed to treat both H<sub>2</sub>S and mercaptan odors, this product replaces the use of multiple chemicals with a single, efficient formulation. Clients have achieved up to 50% cost savings and 35x lower usage volumes, driven by major reductions in freight, storage, labour and chemical spend.
- **The Industry Benchmark for Odor Elimination.** This innovative, environmentally safe chemical solution outperforms all non-toxic alternatives in controlling and eliminating harsh, pungent industrial odors.

## Applications

- Caustic scrubbing replacement
- Sour fluid trucking
- Industrial waste water treatment
- Heavy oil sweetening
- Liquid hydrocarbon pipeline treatment
- Produced water systems
- Turnaround decontamination
- Storage tank cleaning
- Vent gas scrubbing
- Tank vapor and odor control

## Disposal

**BROADTREAT™** reactionary by-products are water-soluble and non-volatile, partitioning into the aqueous phase. They can be handled using standard wastewater treatment or deep-well disposal practices, eliminating the need for special waste management.



## BROADTREAT™ Solutions

### Caustic Scrubbing Replacement

- Economic Advantage:** Replaces multiple chemicals with one product in agribusiness, pulp & paper, and industrial stack systems - cutting spend, logistics, and handling.
- Safety & Simplicity:** Eliminates corrosive caustic and hypochlorite with a biodegradable, low-toxicity chemistry that is safer to store, dose, and manage.
- Operational Efficiency:** Fewer deliveries and simplified training reduce complexity in mills, plants, and processing facilities.
- Sustainability:** Low aquatic toxicity and reduced transportation footprint support ESG goals.

### Sour Fluid Hauling

- Safe & Sustainable:** A non-toxic, non-corrosive, biodegradable, and non-TDG formulation that eliminates exposure to hazardous scavengers, improves worker safety.
- Efficient & Simple:** Replaces multiple products with a single treatment, cutting inventory, simplifying dosing directly into trucks, and ensuring reliable H<sub>2</sub>S and odor control in sour fluid.

### Industrial Wastewater Treatment

- Reliable Treatment:** Effectively treats industrial wastewater by neutralizing H<sub>2</sub>S, mercaptans, and microbial contaminants. Its low-toxicity, biodegradable, and non-TDG formulation improves safety and environmental compliance while delivering consistent H<sub>2</sub>S and odor control across industries.

### Heavy Oil Sweetening

- Effective Sweetening:** Neutralizes H<sub>2</sub>S and mercaptans in heavy oil streams, eliminating odor at the source and improving workplace air quality.
- Lower Chemical Demand:** Dosage rates are significantly reduced versus triazine scavengers, cutting chemical use and lowering overall treatment costs.
- Safer & Non-TDG:** A low-toxicity, biodegradable, non-triazine formulation with no formaldehyde and non-TDG transport status, reducing risk during handling and logistics.
- ESG Advantage:** Fewer deliveries reduce carbon footprint and road exposure, while treatment lowers SO<sub>2</sub> and CO<sub>2</sub> emissions from production operations.

### Biofilm Control

- Powerful & Safe:** Biofilm control agents rapidly eliminate aerobic and anaerobic bacteria, achieving over 98% microbial kill within 24 hours. They also neutralize H<sub>2</sub>S and mercaptans to improve air quality. With low toxicity, no skin sensitization, low odor, and biodegradable chemistry, they enhance safety and environmental compliance across industrial operations.

**BROADTREAT™ is a safe replacement for triazine scavengers and caustic chemicals.**



#### Head Office

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



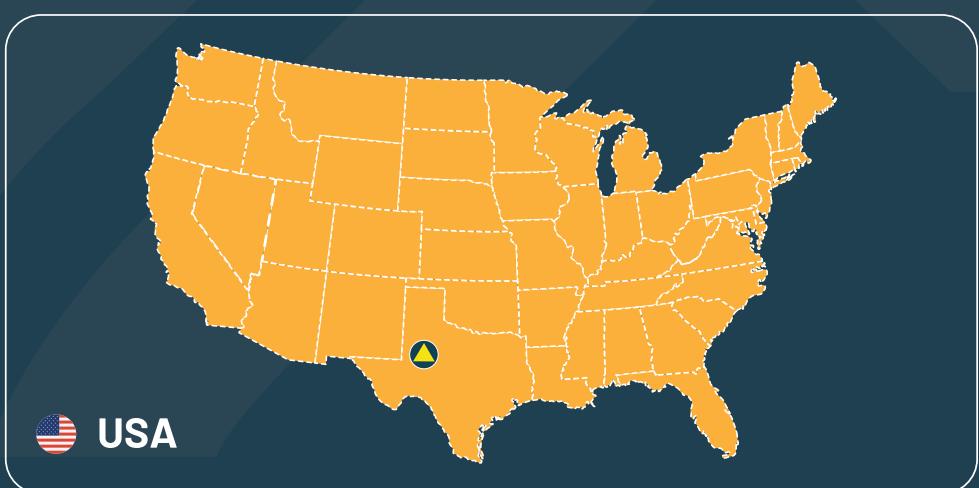
#### Field Office

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



#### Distribution Centers:

- Red Deer
- Thorsby
- Grande Prairie
- Midland, Texas



## Safety Partners



Workplace Safety  
Certificate of  
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## Procurement Partners



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# FIELD APPLICATION 1

## Sour Fluid Hauling Operations



A leading provider of fluid handling, vacuum, and transportation services across Western Canada faced significant health, odor, and compliance challenges when hauling sour fluids containing H<sub>2</sub>S and mercaptans. By adopting **BROADTREAT™** H<sub>2</sub>S & Mercaptan Sweetener chemistry, they replaced dual chemical treatments with one safe, efficient solution. Its low odor, non-toxic, and non-TDG profile made the transition seamless.

### Results:



- Eliminated need for dual chemical treatment
- Simplified inventory and handling
- Reduced chemical exposure risk for field staff
- Improved odor and H<sub>2</sub>S neutralization performance
- Enhanced ESG profile with low-toxicity, biodegradable chemistry





## FIELD APPLICATION 2

### Sweetening Conventional Heavy Oil



A heavy oil operator in Wildmere, Alberta, faced persistent odor and HSE issues from fluids treated with high-dose triazine scavengers. **BROADTREAT™ H<sub>2</sub>S & Mercaptan** Sweetener chemistry was introduced at the same dosage and then optimized.

The program cut chemical use by 50%, reduced costs, and eliminated site odors, while providing a safer, non-triazine, non-TDG alternative.

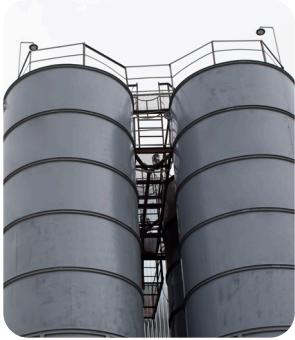
#### Results:



- Reduced chemical dosage by 50%
- Lowered chemical costs by 28%
- Eliminated odor - treating all volatile organic sulfur compounds
- Reduced deliveries - lower road risk and carbon footprint
- Non-triazine, formaldehyde-free, and non-TDG formulation

# FIELD APPLICATION 3

## Caustic Scrubbing Replacement



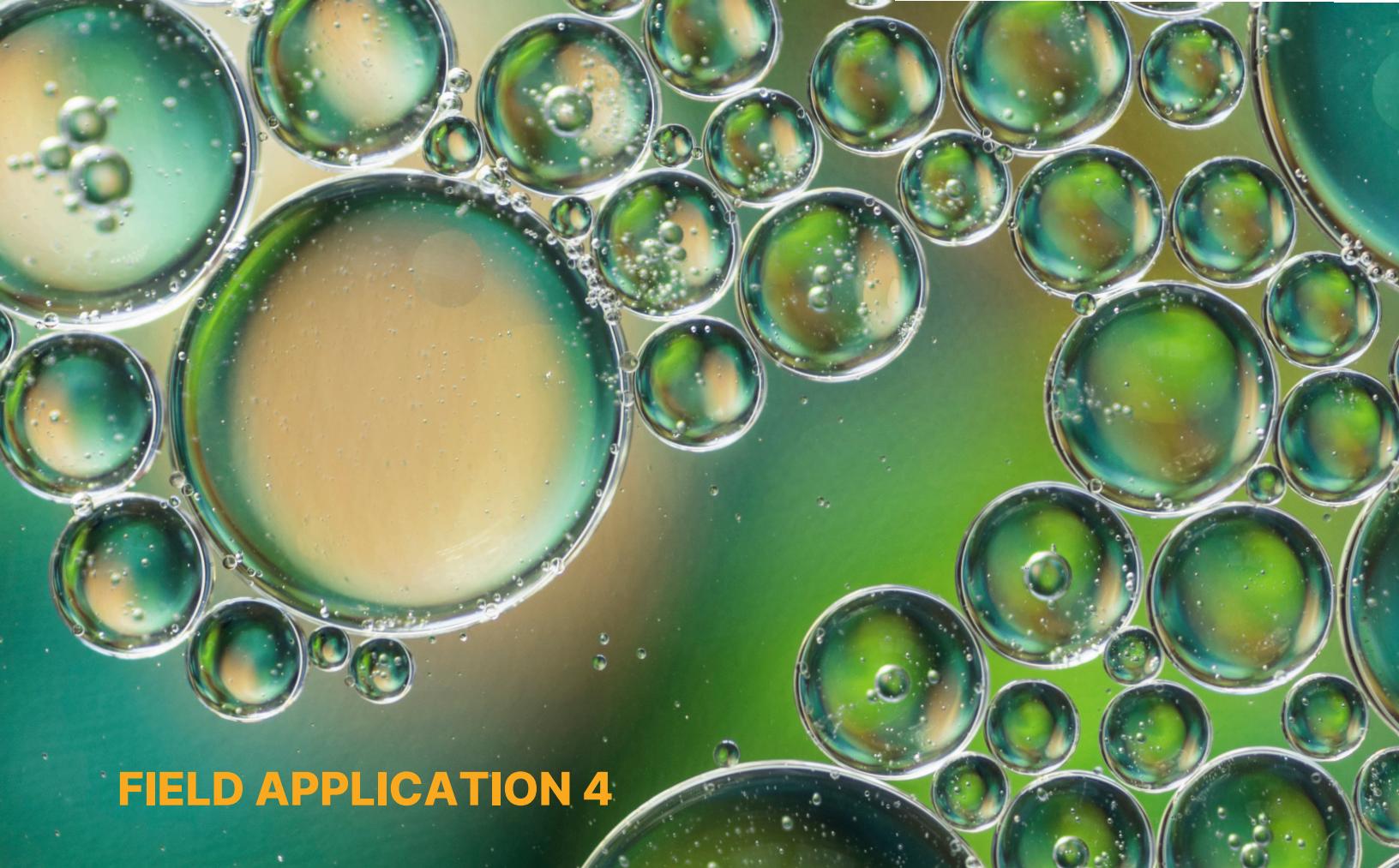
A major agribusiness processor required a safer, more efficient alternative to traditional caustic and sodium hypochlorite scrubbing. By adopting **BROADTREAT™** H<sub>2</sub>S & Mercaptan Sweetener chemistry, the site eliminated hazardous chemical handling while simplifying operations with a single, dual-function product. Deliveries were reduced dramatically, operating costs decreased, and the company advanced its safety and ESG performance.

### Results:



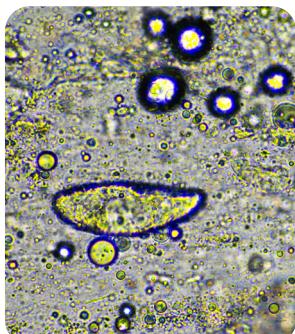
- Eliminated the need for both caustic and hypochlorite
- Reduced chemical deliveries from monthly to semi-annual
- Lowered total chemical spend and simplified logistics
- Improved safety with low-toxicity, biodegradable chemistry
- Improved ESG profile with lower emissions and hazards





## FIELD APPLICATION 4

### Biofilm Control



At a West Texas frac pond, persistent microbial contamination and odors were driving operational and safety concerns.

**BROADTREAT™** biofilm control agents rapidly eliminated aerobic and anaerobic bacteria, achieving >98% kill within 24 hours.

By neutralizing H<sub>2</sub>S and mercaptans, they improved air quality, enhanced site safety, and delivered longer-lasting microbial suppression.

#### Results:



- 98% bacterial kill within 24 hours
- Multi-day microbial suppression maintained
- H<sub>2</sub>S and mercaptans neutralized on site
- Low-toxicity, biodegradable, low-odor chemistry
- Improved safety in industrial applications