

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



**BROADTREAT™**





## INTRODUCTION

Hydrogen sulfide (H<sub>2</sub>S) and mercaptans (thiols) are persistent challenges across industrial operations, impacting worker safety, environmental compliance, and asset integrity. These volatile sulfur compounds (VSCs) are not only hazardous at low concentrations but also contribute to offensive odors and accelerated corrosion—creating operational inefficiencies and increased treatment costs.

**BROADTREAT™** is a proprietary chemical technology designed to replace hazardous treatments with a non-toxic, non-corrosive solution that neutralizes volatile sulfur compounds (VSCs) –primarily H<sub>2</sub>S and mercaptans. By directly targeting these gases, **BROADTREAT™** effectively eliminates odors, reduces H<sub>2</sub>S toxicity, and prevents corrosion—delivering safer, more reliable operations with a safe-to-handle, industry-leading solution.

### 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*
- *Non-regulated, non-dangerous good for transport under TDG.*


## 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 **industrial** operation.

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



## WASTEWATER MANAGEMENT

Effective control of  $H_2S$  and mercaptans is critical in wastewater systems to prevent odor complaints, infrastructure corrosion, and safety risks. These gases are commonly generated during biological breakdown processes, particularly in anaerobic conditions, making consistent treatment essential for maintaining system performance and regulatory compliance.

**BROADTREAT™** integrates seamlessly into wastewater operations, neutralizing sulfur compounds in lift stations, headworks, lagoons, and downstream processes. By addressing the root cause of odor and corrosion, it enables more stable operations while reducing the need for hazardous chemical handling.

### KEY BENEFITS

- *Eliminates odors at the source, improving community and workplace conditions.*
- *Mitigates  $H_2S$ -induced corrosion in pipelines and infrastructure.*
- *Enhances safety for operators in high-risk exposure areas.*
- *Reduces dependence on traditional oxidizers and caustic treatments.*
- *Improves overall system reliability and treatment efficiency.*



## CONFINED SPACE & TANK CLEANING

Confined spaces and tank cleaning operations present elevated risks due to the accumulation of  $H_2S$  and mercaptans. These environments require effective pre-treatment to ensure safe entry conditions while minimizing exposure hazards for personnel.

**BROADTREAT™** technology rapidly neutralizes hazardous gases prior to and during cleaning operations, creating safer working environments without introducing additional chemical risks. Its non-toxic, non-corrosive nature supports safer handling and reduces the burden of PPE and specialized chemical management.

### KEY BENEFITS

- *Rapid reduction of  $H_2S$  levels to support safer confined space entry.*
- *Minimizes worker exposure to toxic and odorous gases.*
- *Non-hazardous formulation simplifies handling and application.*
- *Reduces reliance on harsh chemical treatments during cleaning.*
- *Supports compliance with safety and occupational exposure standards.*



## TRANSPORTATION

### Railcars & Vacuum Trucking

The transport of sour fluids presents ongoing challenges related to H<sub>2</sub>S exposure, odor emissions, and safe handling during loading, transit, and offloading. Without effective treatment, these risks extend beyond the site, impacting drivers, operators, and surrounding environments.

**BROADTREAT™** solution treats fluids in transit, neutralizing volatile sulfur compounds to ensure safer and more manageable transportation conditions. By stabilizing these compounds throughout the logistics chain, it improves operational safety and reduces odor-related incidents.

#### KEY BENEFITS

- *Controls H<sub>2</sub>S and mercaptans throughout transport operations.*
- *Enhances driver and operator safety during handling and transfer.*
- *Reduces odor emissions during loading, transit, and offloading.*
- *Improves overall fluid handling and transfer conditions.*
- *Minimizes the need for additional treatment at destination sites.*



## CAUSTIC SCRUBBING REPLACEMENT

Traditional caustic scrubbing systems are widely used to remove H<sub>2</sub>S and mercaptans but often require high chemical consumption, generate hazardous byproducts, and introduce operational complexity. In addition to safety and handling concerns, these systems can be inefficient in fully controlling persistent odors and may contribute to ongoing maintenance and disposal challenges.

**BROADTREAT™** advanced chemical technology provides the safest replacement alternative to both triazine scavengers and caustic-based treatments. As an industry benchmark for odor elimination, this innovative, environmentally safe solution directly neutralizes sulfur compounds more effectively than conventional and other non-toxic approaches. By outperforming alternative chemistries in controlling and eliminating harsh, pungent industrial odors, it enables operators to significantly reduce or eliminate caustic use while improving safety, simplifying operations, and enhancing overall process performance.

### KEY BENEFITS

- *Safely replaces or significantly reduces reliance on caustic and triazine chemistries.*
- *Industry-leading performance of a non-toxic solution that eliminates H<sub>2</sub>S, mercaptans, & associated odors.*
- *Minimizes solid formation, hazardous byproduct formation, and disposal requirements.*
- *Extends equipment life by reducing corrosive conditions.*
- *Simplifies chemical handling, storage, and operational complexity.*

## 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



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