

ADVANCED SULFUR MANAGEMENT SOLUTIONS FOR OIL & GAS OPERATIONS



BROADTREAT™





INTRODUCTION

Why H₂S and Mercaptans Matter in Energy

Hydrogen sulfide (H₂S) and mercaptans (thiols) are persistent challenges across oil and gas operations—posing significant risks to worker safety, generating severe odors, accelerating asset corrosion, and complicating regulatory compliance.

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 H₂S and mercaptans. By directly targeting these gases, BROADTREAT™ effectively eliminates odors, reduces H₂S 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 H₂S and mercaptan treatment program for your **energy** operation.

 +1 (877) 525 - 4237

 kaliberchemicals.com



SOUR FLUID HAULING

Our technology is ideal for:

- **Truck Hauling** – Long-distance transport of sour fluids.
- **Vacuum Trucking** – Safe loading from pits or tanks in confined locations.
- **Tank-to-Tank Transfers** – On-site or short-haul fluid movement.

Enhance Safety and Operational Reliability

Our advanced treatment technology effectively neutralizes H₂S and mercaptans in transported fluids, drastically reducing exposure risks for drivers and operators during loading, transit, and offloading. By controlling these toxic and odorous gases, it safeguards personnel health, minimizes odor emissions, and prevents corrosion of critical equipment, ensuring safer, more reliable operations from start to finish.

Boost Compliance and Efficiency

This safe-to-handle solution supports regulatory compliance and environmental initiatives by limiting volatile sulfur compound emissions and reducing the need for additional containment measures. It also decreases maintenance costs and downtime caused by sulfur-related corrosion while improving overall handling conditions. The result is a cleaner, more efficient, and cost-effective approach to sour fluid transport that protects people, equipment, and community relations.

KEY BENEFITS

- **Protects Personnel:** Reduces H₂S and mercaptan exposure, enhancing driver and operator safety.
- **Eliminates Odors:** Controls offensive emissions during transport and offloading.
- **Preserves Equipment:** Prevents corrosion of tanks, hoses, and pumps for longer service life.
- **Supports Compliance:** Helps meet safety regulations and environmental standards while improving operational efficiency.



CAUSTIC SCRUBBING REPLACEMENT

Our proprietary solution is designed to replace hazardous caustic and chemical scavengers used in oil and gas operations, providing a safer, more efficient alternative for H₂S and mercaptan removal. It is ideal for **gas sweetening, refinery process streams, and production facility scrubbing systems**, where traditional caustics are used to neutralize corrosive and odorous sulfur compounds. By directly targeting volatile sulfur compounds, it eliminates the need for highly corrosive or toxic chemicals while maintaining reliable gas and fluid treatment performance.

Safe, Efficient, and Environmentally Responsible

This safe-to-handle technology reduces handling risks and chemical storage requirements, protecting personnel and equipment alike. It improves operational efficiency by minimizing maintenance issues caused by corrosion and process upset, all while supporting regulatory compliance and environmental stewardship. The result is a streamlined, cost-effective approach to sulfur compound management that preserves equipment life and enhances workplace safety across oil and gas operations.

KEY BENEFITS

- **Safer Operations:** *Eliminates the hazards associated with caustic and chemical scavengers.*
- **Reduces Corrosion:** *Protects equipment and piping from chemical-induced damage.*
- **Operational Efficiency:** *Minimizes maintenance downtime and simplifies chemical handling. Reduces chemical delivery and storage requirements.*
- **Environmental & Regulatory Support:** *Limits chemical waste and supports compliance initiatives.*



HEAVY OIL SWEETENING

Our advanced chemical technology provides a safer, high-performance alternative for heavy oil sweetening operations. It is specifically designed for crude oil treatment, refinery feedstock conditioning, and production facility processing, where conventional sulfur scavengers are used to remove H₂S and mercaptans. By directly neutralizing volatile sulfur compounds, our product cuts overall chemical usage by up to 50%, eliminating the need for triazine-based or TDG-classified chemicals while maintaining effective odor control and sulfur removal.

Safer, More Efficient, and Environmentally Responsible

This non-toxic, non-corrosive solution improves workplace safety by reducing chemical handling risks and eliminating site odors. It also minimizes equipment corrosion and operational downtime associated with traditional sulfur scavengers. By providing a streamlined, cost-effective approach to heavy oil sweetening, it enhances operational efficiency while supporting environmental compliance and sustainability initiatives.

KEY BENEFITS

- **Safer Alternative:** Non-triazine, non-TDG formulation reduces handling risks.
- **Chemical Reduction:** Cuts overall chemical use by up to 50%.
- **Odor Abatement:** Eliminates site odors for improved working and community conditions.
- **Operational & Environmental Efficiency:** Protects equipment, reduces maintenance, and supports compliance initiatives.



MIDSTREAM OPERATIONS

Our advanced chemical technology is engineered for pipeline transport, storage tanks, and compressor station operations, where H_2S , mercaptans, and other sulfur compounds pose safety, odor, and corrosion challenges. By directly neutralizing these volatile sulfur compounds, our product ensures safer handling of crude oil, condensates, and produced water throughout midstream processes. It provides a reliable, non-toxic alternative to traditional hazardous chemicals, supporting continuous, efficient operation across transportation and storage networks.

Safer, Efficient, and Environmentally Responsible

This safe-to-handle solution reduces exposure risks for personnel, minimizes equipment corrosion, and eliminates offensive odors along pipelines and storage facilities. By lowering chemical usage and simplifying handling, it also decreases operational downtime, supports regulatory compliance, and enhances environmental stewardship. The result is a streamlined, cost-effective approach to midstream sulfur management that protects people, infrastructure, & surrounding communities.

KEY BENEFITS

- **Enhanced Safety:** Reduces H_2S and mercaptan exposure for personnel.
- **Equipment Protection:** Minimizes corrosion in pipelines, tanks, and compressors.
- **Odor Abatement:** Controls offensive emissions along midstream facilities.
- **Operational & Environmental Efficiency:** Supports regulatory compliance, lowers chemical usage, and reduces maintenance requirements.

Serving Western Canada & Beyond

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



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



Field Office

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



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