YOUZHUCHEM | UNiBROM

Dual-Soluble Sulfur Scavenger for Oil & Gas Systems

A highly effective, dual-purpose sulfur scavenger designed for use in both hydrocarbon (oil/gas) and aqueous systems



Product #: UBPro-445

Introduction

UBPro-445 is a highly effective, dual-purpose sulfur scavenger designed for use in both hydrocarbon (oil/gas) and aqueous systems. Its unique formulation allows it to neutralize and remove hydrogen sulfide (H_2S) and other mercaptans in a wide range of applications, including crude oil, natural gas, and produced water. The product is effective in both continuous injection and batch treatment scenarios.

Advantages

- ✓ Dual Solubility: Effective in both oil and water phases, ensuring comprehensive treatment.
- ✓ High Efficiency: Rapid reaction with H_2S and mercaptans.
- ✓ Non-Fouling: Reaction products are typically soluble, preventing scale or deposit formation.
- ✓ Versatility: Suitable for a wide range of temperatures and system conditions.

Applications

- ✓ Oil & Gas Production: Scavenging of H_2S from crude oil, associated gas, and multiphase flow.
- ✓ Produced Water Treatment: Removal of dissolved sulfides from produced water before discharge or re-injection.
- ✓ Refining & Petrochemicals: Protection of process units from sulfide corrosion.
- ✓ Drilling Muds: Can be used in water-based muds to control sulfide contamination.

Recommended Handling

- ➢ The recommended dosage is highly dependent on system-specific parameters such as concentration of H2S. A typical treatment range is 100 - 300 ppm(w/v), but a pilot test is required for optimal results.
- ➢ Handle as an industrial chemical wearing protective equipment and observing the precautions of described in the Material Safety Data Sheet (MSDS).
- ➢ Notes:Field trials are recommended for optimal dosage determination.

Technical Index

Items	Specifications
Appearance	Colorless to transparent liquid
Water Solubility	Soluble
pH value(neat)	7.5-9.0
Specific gravity(20℃)	0.92-1.05

Performance Evaluation (Lab Simulation Test)

Test Item	Test Conditions	Result
Initial H_2S Concentration	H_2S gas cylinder	100ppm
Dosage	UBPro-445	50 ppm
Reaction Time	Static mixing at ambient temperature	3 minutes
Residual H_2S (Liquid Phase)	After treatment	≤ 4 ppm
Residual H_2S (Gas Phase)	After treatment	Below detection limit

Testing Method

- Laboratory simulations were conducted using H_2S gas to replicate field conditions in sour oil and gas gathering systems. Colorimetric tubes were used as the medium for chemical injection, reaction monitoring, and H_2S concentration measurement.

Packaging and Storage

- 200L/Drum or 1000L IBC
- Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and /or stacking.

For more information on the UBPro H2S Scavenger Series, Send email: info@youzhuchem.com, or call 0086 13408536218 or for information on other YouzhuCHEM products visit youzhuchem.com