**FQE H₂S Scavenger Oil**

H₂S scavenger for the rapid and permanent elimination of oil-based H₂S

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**Product Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Bulk density</td>
<td>8.16 lb/gallon (978 kg/m³)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not Miscible in Water</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 200°F (93°C)</td>
</tr>
<tr>
<td>Approximate storage life</td>
<td>1 year</td>
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</tbody>
</table>

**Standard Package**

55 US gallons (208 litre) closed head poly drum, tote bin, or bulk.

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**FQE® H₂S Scavenger Oil**

is designed to specifically convert hydrogen sulfide to an oil-soluble and heat stable reaction product.

The conversion product will not revert to generating hydrogen sulfide at acidic pH’s. When added to sour condensate or crude oil, toxic H₂S is quickly and permanently removed. This product is especially effective in mitigating high concentrations of hydrogen sulfide commonly encountered in refinery, oil production and crude oil transportation operations.

**Application**

FQE H₂S Scavenger Oil can be applied by use of any convenient sprayer system, either automatic or manually operated, or by pump circulation in larger vessel container size. Contact time of a few minutes to one hour is usually adequate for completion of the H₂S scavenging action. Fast reaction times are possible by increasing the chemical dosage rate or by increased mixing to enhance H₂S contact. 0.85 lbs. H₂S control per liter of FQE H₂S Scavenger Oil at 100% efficiency is possible. Consult with your sales representative for dosage recommendations.

**Dilution**

It is recommended that FQE H₂S Scavenger Oil be applied at concentrations of one part to every three parts of hydrogen sulfide. No special safety equipment is required for use of this product.
CASE HISTORY
Rail Car Chemical Decontamination

Results Achieved
- Over 20 times, saving thousands of dollars in manpower and equipment charges
- Cleaning efficiency increased
- Minimal sludge deposits were left over after chemical cleaning

Chemicals Utilized
- LEL-V
- 2S
- A service company utilized FQE® Solvent-ME, FQE® Clean Road, and FQE® LEL-V for a rail car cleaning application at a petroleum refinery located in Delaware.

The refiner was looking to conduct a change of service on dark oil (crude oil) to clear fluid (ethanol) service. The cars needed to be fully de-oiled to eliminate any possibility of cross contamination. Previously, the client had been cleaning equipment at a rate of around 1 car every 4-5 days and was looking for a more efficient method. As part of the initial decontamination process to remove the bulk of the crude oil, FQE Solvent-ME was vapour-phased injected with steam into the rail cars at a controlled rate until the effluent coming out of the bottoms drain was oil-free.

To ensure that all the cars were truly de-oiled down to the porous cavities in the steel surface, FQE Clean Road was subsequently injected into the rail cars as part of the initial decontamination process. After the injection was complete, the cars were thoroughly flushed and degassed. LEL-V and H2S were then applied to remove LEL and H2S respectively. The whole operation was done in record time over a scheduled 12-hour period. Upon completion of the injection period, the effluent coming out of the bottoms drain was clear with no delays.

Primary Separation Settler Diagram

Chemicals Utilized
- LEL-V
- 2S

A service company utilized FQE® Solvent-H, FQE® LEL-V, and FQE® H2S to clean a Primary Separation Settler. The previous attempt by a competitor to clean the settler left LEL and H2S reduced to 0.

Results Achieved
- 50% reduction in down time
- Degassing of a Coker Fractionator

CASE HISTORY
Degassing of a Coker Fractionator

Methods
- A new process was chosen; the FQE® Solvent-H, FQE® LEL-V, and FQE® H2S method.

Chemicals Utilized
- LEL-V
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Canadian crude utilized FQE® Solvent-H, FQE® LEL-V, and FQE® Pyrophoric for their turnaround operations and saved 1 day of outage time.

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