**TECHNICAL BULLETIN**

**FQE Pyrophoric**

Non-hazardous product for effective control of pyrophoric iron deposits

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**Product Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk density</td>
<td>10.11 lb/gallon, 1211 kg/m³</td>
</tr>
<tr>
<td>Solubility</td>
<td>Complete 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>
</tr>
</tbody>
</table>

**Standard Package**

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

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**FQE® Pyrophoric** is a proprietary blend of non-toxic, non-hazardous complexing agents and proprietary ingredients designed for application in operations where pyrophoric iron generation is a hazard.

This product is especially effective in the removal of iron sulfide scale deposits commonly encountered in refinery and other chemical manufacturing operations. This product is water dilutable and can be applied as a diluted material at less active concentrations.

**Application**

FQE Pyrophoric can be applied by use of conventional sprayer systems, either automatic or manually operated, or by pump circulation in larger vessel container size. This product may be applied in tanks and towers by steam injection during vapor phase cleaning operations.

**Dilution**

It is recommended that FQE Pyrophoric be applied at concentrations of 1-3% as an aqueous dilution and in combination with chemicals used for equipment degassing operations. 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
removed all traces of LEL and H2S left over after chemical cleaning
Minimal sludge deposits were

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 at a rate of around 1 car every 4-5 days and was looking for a more efficient alternative to meet their tight timelines. 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 applied, followed by a final polish. The vessel had a top cylindrical section with an internal diameter of 15.2 meters, and the product in the vessel was made up of mostly solvent (C5/C6), and bitumen.

Solvent-H, FQE® LEL-V, and FQE® H2S to clean a large primary separation settler in record time. This resulted in significantly reduced mechanical outage time; manpower entry and communication at previous turnarounds.

Prior to chemical application, it was confirmed that there was a mixture. The previous attempt by a competitor to clean the settler left LEL present due to the solvent that was trapped in the asphaltene buildup in the mixture. The whole operation was done in record time to remove LEL and H2S respectively. The whole operation was done in record time to remove LEL and H2S respectively.

Case Histories
Access a wide range of case histories to learn about the variety of applications our chemicals are utilized for.

fqechemicals.com/case-histories

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