Tank Cleaning Chemical Products

Improve the efficiency and financial performance of your tank cleaning with our specialized chemistries.

Utilizing our methodology of applying advanced customized chemistry to make tank cleaning more efficient does more than optimize your use of resources and minimize your downtime. It also enables you to recover up to 98% of your hydrocarbon product which would be disposed of as hazardous waste using conventional tank cleaning practices.

The following chemistries are the most common for tank cleaning applications, contact us for specific applications.

**FQE® LEL-V**

Function: Vapor control

Water-based, rapid absorption of vapor-state hydrocarbons in an innovative encapsulant for effective decontamination and degassing of hydrocarbon processing equipment.

- Rapid reduction of LEL's due to polymeric encapsulation process
- Vapor-phase addition at 0.25 - 0.50% of steam flow
- Chemically compatible with our other degassing products for efficient control of H₂S and pyrophoric iron

**FQE® LEL-V Eco**

Function: Vapor control

Water-based, proprietary blend of safe, non-hazardous surfactants and a proprietary solvent that uses the properties of a surfactant to outperform many solvents used in industrial cleaning applications.

- Designed for excellent performance at an economical price
- Powerful surface cleaning / degreasing
- Rapid emulsion phase separation

**FQE® NORM-Clear**

Function: Removal of NORM contamination

Exclusive water soluble product developed with selective extractants designed to completely remove NORM (naturally occurring radioactive material) contamination from vessels, tanks, or process pipework.

- Designed to dissolve problematic scales
- Selective attraction to radiotoxic elements
- Rapid, effective equipment decontamination to personnel safe conditions

**FQE® H₂S**

Function: Hydrogen sulfide control

Water-based, designed for instantaneous and permanent elimination of hydrogen sulfide present in refining and other process equipment.

- Rapid elimination of H₂S vapors and dissolved liquids
- Non-reversible reaction path (no reversion to H₂S)
- Highest cost efficiency per mole of H₂S
- Prevention of solids formation, specifically dithizaine
- Chemically compatible with FQE LEL products

**FQE® Mercaptan Odor**

Function: Mercaptan odor control

Water-based, neutral pH, and pleasant aroma designed for efficient removal of nuisance odors from mercaptans.

- Fast and efficient control of mercaptan-based nuisance odors
- Pleasant cinnamon-like aroma
- Water dispersible, non-flammable

**FQE® Ammonia Odor**

Function: Ammonia control

Water-based product designed for rapid removal and control of hazardous ammonia residues in vessels.

- Rapid reaction with ionized and non-ionized ammonia
- Eliminates the hazards of ammonia exposure and nuisance odors
- Safe for personnel use
- High molar reaction ratio with ammonia

Visit our website at fqechemicals.com
<table>
<thead>
<tr>
<th><strong>FQ® Solvent-H</strong></th>
<th><strong>FQ® Solvent-HW</strong></th>
<th><strong>FQ® Solvent-ME</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Function:</strong> Asphaltene dispersion</td>
<td><strong>Function:</strong> Wax inhibitor</td>
<td><strong>Function:</strong> Degreasing</td>
</tr>
<tr>
<td>Highly effective in the dissolution and recovery of asphaltenes in process equipment, pipelines and storage tanks. It will dissolve high molecular weight asphaltenes and maintain a liquid state for effective recovery and reintroduction of a valuable hydrocarbon stream into the refining process.</td>
<td>Used to dissolve and suspend asphaltenes and waxes.</td>
<td>Water-based micro-emulsion cleaner used for removal of heavy oil fouling. Very effective in dissolving high mole weight waxes and asphaltenes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Effective asphaltene dispersant • Effective wax crystal modifier for wax solvation and prevention of wax accumulations • Oil-based; 100% recoverable with cutter stock and organic solids. No waste.</td>
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<tr>
<td></td>
<td></td>
<td>• Water emulsifiable solvent • Contains petroleum-based solvents • Effectively dissolves heavy oils / waxes • Water-rinsable, leaves a water-wet surface on rinsing • Non-combustible</td>
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<tr>
<th><strong>FQ® Solvent-LP</strong></th>
<th><strong>FQ® Solvent-PS</strong></th>
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<tbody>
<tr>
<td><strong>Function:</strong> Dissolving linear polymers</td>
<td><strong>Function:</strong> Dissolving matrix polymers</td>
</tr>
<tr>
<td>A concentrated liquid polymer dispersant / solvent decontaminant containing benzene-free aromatic petroleum solvents with a blend of selected dispersants, penetrants, wetting and anti-static agents.</td>
<td>A concentrated liquid solvent cleaner containing selected aromatic petroleum solvents together with a blend of anionic and non-ionic emulsifiers and penetrating agents.</td>
</tr>
<tr>
<td>• Useful in dissolving polymers commonly found in refining and ethylene production equipment • Applied through vapor-phase addition to steam supply during initial equipment purging to dissolve polymeric solids and speed-up equipment for maintenance</td>
<td>• Useful for removing cross-linked matrix polymers often encountered in catalytic crackers and vinyl compound production (vinyl chloride, acrylics) • Non-flammable. Effective and rapid action • Can be applied through vapor phase addition; heavy deposits dissolved in liquid circulation</td>
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<thead>
<tr>
<th><strong>FQ® Degreaser-L</strong></th>
<th><strong>FQ® Degreaser-ACHW</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Function:</strong> Degreasing</td>
<td><strong>Function:</strong> Degreasing</td>
</tr>
<tr>
<td>Water-based product that contains d-limonene, used as an oily compound degreaser for the removal of heavy oils. Anti-static and safe for vapor-phase degreasing in steam injection or hydrogen cool-down application.</td>
<td>Alkaline degreaser for waxes/carbon deposits, used on belt presses in dewatering systems, caustic.</td>
</tr>
<tr>
<td>• Water emulsifiable solvent • Pleasant citrus aroma • No petroleum-based solvents • Highly concentrated</td>
<td>• Alkaline, non-phosphate, water-based degreaser • Rapid oil-water phase separation, moderate foaming character • Useful for dissolving heavy oils and greases.</td>
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<tr>
<th><strong>FQ® Degreaser-ACMO</strong></th>
<th><strong>FQ® Degreaser-ACHO</strong></th>
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<tr>
<td><strong>Function:</strong> Degreasing</td>
<td><strong>Function:</strong> Degreasing</td>
</tr>
<tr>
<td>Water-based product with alkaline builders for effective cleaning of light to medium oils from various vessel types.</td>
<td>Alkaline degreaser for heavy oils/greases, compatible with stainless steel, rapid oil separation, caustic.</td>
</tr>
<tr>
<td>• Alkaline, non-phosphate, water-based degreaser • Rapid oil-water phase separation, moderate foaming character • Useful for dissolving heavy oils and greases.</td>
<td>• High alkaline, water-based degreaser • Compatible with stainless steel metallurgy • Useful for removal of heavy greases and paraffins</td>
</tr>
</tbody>
</table>
A neutral pH fire retardant aqueous mixture developed to provide a better, cleaner, safer fire protection. It is designed to be applied on both active and potential fire protection.

- Designed for the control and removal of the pungent, irritating odors of acrylic acid and acrylic ester monomers
- Rapid elimination of odor under ambient conditions, personnel safe liquid
- Can be spray or liquid circulation applied

**Function:** Neutralization/Elimination of malodors

An effective reactive deodorant product for controlling the pungent odors associated with vinyl compounds such as acrylic esters and vinyl chloride.

**Function:** Neutralization of allyl compounds

Used for cleaning and deodorizing vessels containing allyl compounds.

- Designed for decontamination of allyl chloride processing and storage equipment
- Non-emulsifying, water-based liquid
- Non-hazardous

**Function:** Iron sulfide control

Water-based, proprietary anti-oxidant designed for the immediate cessation of sulfide oxidation and control of iron sulfide deposits.

- Immediate control of pyrophoric iron combustion hazards by unique anti-oxidation process
- Can be applied by vapor-phase addition during vessel degassing processor by direct spray into iron deposits

**Function:** Fire suppression

A neutral pH fire retardant aqueous mixture developed to provide a better, cleaner, safer fire protection. It is designed to be applied on both active and potential fire protection.

- Fire suppressant for hydrocarbon fluids
- Effectively, rapidly prevents fire initiation of light hydrocarbon fluids under source ignition
- Useful in controlling potential fires from hydrocarbon spills and also effective in dousing active fire conditions

**Function:** Absorbs fugitive emissions

Designed as a hydrocarbon vapor absorption fluid for use in portable scrubber equipment. Used to reduce fugitive emissions from uncontrolled sources such as vacuum trucks and vessel vents that are not tied into flare systems.

- Designed for application in controlling fugitive emissions from non-point source locations such as vacuum trucks, non-flared tank vents
- Water-based, non-hazardous liquid capable of 3X absorption of hydrocarbon LEL compounds

**Function:** Bioremediation

Safe, non-toxic microbial formulation used for rapid consumption of hydrocarbons and other organic compounds.

- Up to 95% total petroleum hydrocarbon reduction in contaminated substrates within 96 hours of application
- Non-toxic and no harmful bacterial cultures
- Proprietary encapsulant traps light end hydrocarbons for rapid control of volatile compounds such as benzene
- Effective in soil and water environments

**Function:** Fire Suppressant

**Function:** LEL Scrubber

More Tank Cleaning Resources

For more information on our tank cleaning chemistries visit our website to find case histories and technical bulletins for all the products in this brochure.
Improve efficiency and financial performance

At FQE Chemicals, we help our clients improve the efficiency, safety, and financial performance of their assets by creating innovative and unique chemistries that provide superior value and performance. Our award-winning chemistries are distributed globally.

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