

SAFE.  
ECONOMICAL.  
SUCCESSFUL.




We bring you there.





A successful **REFINERY** is both *safe* and *profitable*.

And safe and profitable mean **CLEAN.**



The importance of clean can't be overstated. Contaminates are always accumulating in petrochemical systems—and in order to prevent the toxic and flammable conditions that can lead to disaster, they must be completely removed. But cleaning means shut-downs, and shut-downs take time; and the longer the shut-down, the lesser the profits.

When the stakes are this high, it's crucial to find a solution to put you back in production as soon as possible. In the past, refiners looked to a variety of answers, from open waste water systems, to nitrogen purges, to caustic detergents. Still, shut-downs dragged on. The cleaning wasn't thorough. The environment suffered, and hazards remained.

We've developed a system to clean it better, clean it faster, eliminate hazards, preserve the environment and protect your personnel. The result? Volatile gasses are safely removed. Hard-surface deposits are efficiently dissolved. Staff exposure to hazardous materials is reduced. With non-toxic, biodegradable products, waste disposal is no longer a concern. Most of all, shut-downs that used to drag on for days can now take as little as twelve hours.

In fact, we've documented customer savings at several thousand percent (ROI) based on quicker turnarounds alone.

Safe. Economical. Successful. At **Clean Concepts**, we make the difference.



*We're by your side, from start to finish.*



The challenges of today can't be answered by yesterday's solutions. That's why Clean Concepts surges beyond the status quo, bringing an innovative array of proprietary chemistries designed to meet your goals and maximize production—effectively, safely and efficiently.

- Superior variety of products
- Worker hazards minimized
- Environmental regulations met
- Use during major maintenance overhauls
- Use during production without shutting down

But "success" means more than using the right products. Our procedures are as innovative as our products. When working together, Clean Concepts actively partners with you to address your particular situation and respond intelligently to the challenges you face. Taking the smart approach, we enhance our products' performance, minimize your downtime, and leave your process vessels free of hydrocarbon, hydrogen sulfide, benzene and pyrophoric iron. Most importantly, we take care of you.

Technical support is our cornerstone at Clean Concepts, from consultation to lab analysis to on-site representation. And with our broad distribution network, last-minute orders can be delivered on the same day, so your maintenance moves forward on schedule.

In short, we're there with you for the design. We're there while you're implementing the plan. And we're there at the end, when you're bringing your system back online.

SIMPLY PUT, WHEN IT COMES TO  
DECONTAMINATION AND CLEANING FOR  
THE OIL AND GAS INDUSTRIES,  
CLEAN CONCEPTS TAKES THE LEAD.





# CleanProducts

*Environmentally safe, worker-friendly.*

## CC ELIMINATOR PLUS — *One-step Degasser and Degreaser*

Effective and biodegradable, CC Eliminator Plus is a one-step decontamination treatment. It reduces benzene and eliminates the hydrogen sulfide and pyrophoric iron found in petrochemical systems, transforming hazardous compounds into a nonhazardous form for safe disposal.

## CC 414P — *Heavy-duty Solvent Degreaser*

Excellent for steam-cleaning applications, CC 414 is a natural, solvent-based, biodegradable cleaner able to remove hard-surface oil and grease deposits encrusted throughout petrochemical systems.

### CC Eliminator Plus and CC 414P...

- Reduce benzene, ammonia, LELs and H<sub>2</sub>S to near zero
- Reduce or eliminate hazardous waste
- Can be used alone or in combination with one another

## CC 400 AS — *Heavy-duty Solvent Cleaner*

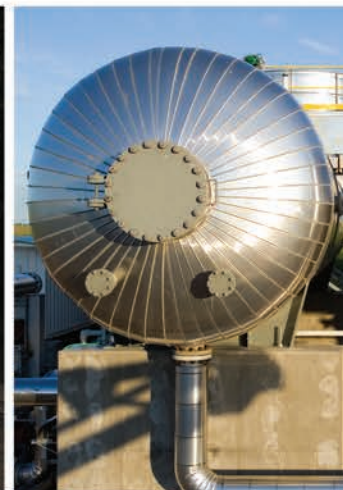
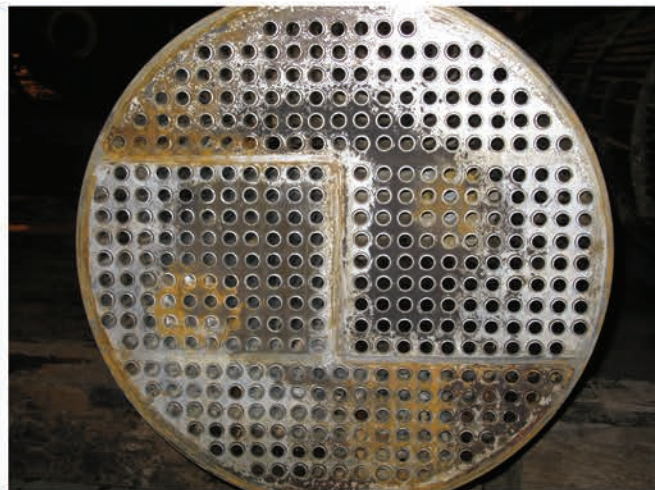
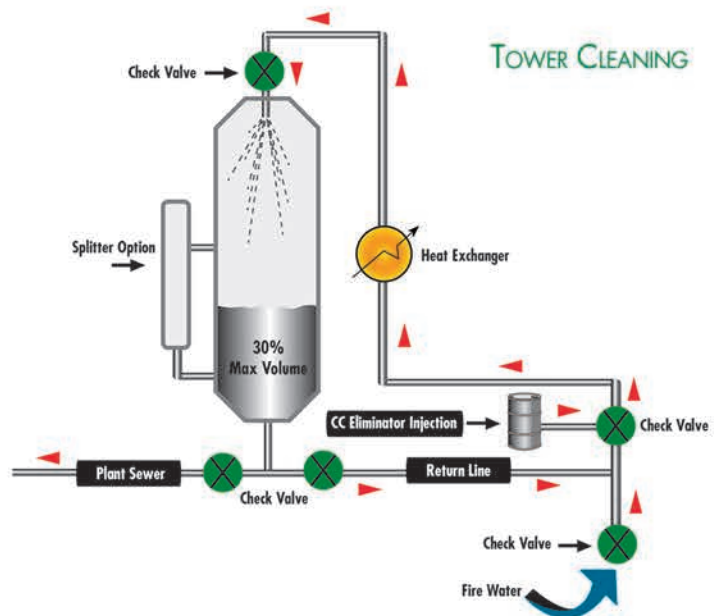
CC 400 AS is a natural, solvent-based, biodegradable cleaner designed to break down heavy, hard-surface hydrocarbon deposits (including asphalt) in petrochemical systems, creating a three-phase separation of water, oil and coke layers.

## CC 925 HD — *Heavy-duty Chemical Cleaner*

A blend of naphthalenes and other proprietary chemistries, CC 925 dissolves asphaltines, coke and popcorn polymers, breaking down heavy hydrocarbon and chemical deposits in knock-out drums, cokers, heat exchangers and asphalt tanks. When light cycle oil is the carrier, often it can be re-refined afterward for added efficiency.

### CC 400 AS and CC 925 HD...

- Work with LCO, LGO, diesel or water
- Are great for pre-cleaning while bringing units down
- Do not necessitate heat exchanger bundles to be pulled in many cases
- Can clean heat exchangers while on-line





# CleanApplications

*What makes Clean Concepts stand apart?*

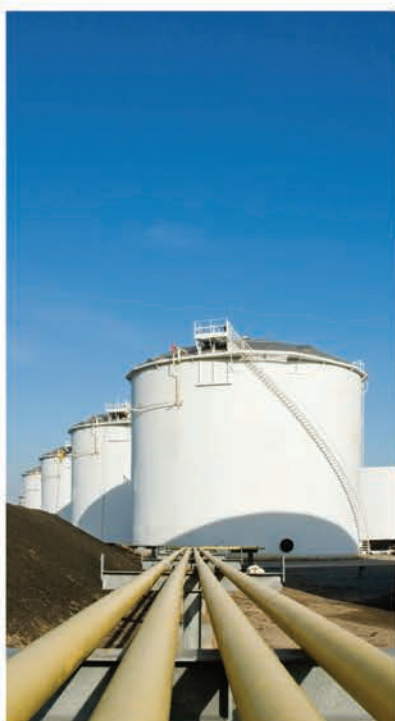
We bring a better variety of chemistries; our products are cost-effective; furthermore, they're adaptable. Use them alone or in combination. Use them during a full-scale shut-down, or when you're just working to extend production until your next scheduled maintenance overhaul.

BEST, WE MEET YOU WHERE YOU ARE. FROM THE USA, TO CANADA, TO ACROSS THE WORLD, CLEAN CONCEPTS HAS THE EXPERTISE, THE RELATIONSHIPS AND THE EXPERIENCE TO ENABLE YOU TO MEET YOUR GOALS.



## SELECTED APPLICATIONS

- Amine Units
- Hydrofiners
- Caustic treaters
- Hydrotreaters
- Cat Crackers
- Merox Units
- Cokers
- Natural Gas Sweetening Units
- Crude Units
- Pipelines
- Ethylene Units
- Pipestills
- Flare Systems
- Reformers
- Gas Compressor Systems
- Sour Water Strippers
- Hydrocarbon Tanks
- Sour Water Tanks
- Hydrocrackers
- Sponge Absorbers



## SELECTED CREDITS

- BP • Chevron • Citgo • ConocoPhillips • Equistar • Ergon Refining  
 ExxonMobil • Farmland Refinery • Frontier Oil Corporation  
 Husky Energy • Ineos Refining • Marathon Oil Corporation  
 Murphy Oil Corporation • Shell • Tesoro • Ultramar  
 Valero Energy Corporation • Western Refining



# CleanEnvironment

*Powering the world. Protecting the planet.*



Global concern for the environment is on the rise, and today, it's never been more important to run a clean operation.

Not only is "clean" more efficient, safer for personnel and more profitable, it's also critical to the health of the world we live in. Given the public attention on environmental matters, when we damage the environment, we damage our reputation, too. We can't afford to compromise the wellbeing of our planet. "Clean" isn't a luxury. It's a necessity.

When Clean Concepts takes on your project, we bring the tools you need to eliminate toxic waste-water, reduce the release of atmospheric pollutants, help you meet environmental regulations and maximize your profits. Demonstrating "best practice" in environmental matters is the key. The world is depending on us, after all—for its energy needs, and now for its safety, too.

## The Clean Concepts Mission

- Partnering with you to address your exact needs
- Standing by your side from start to finish
- Helping you reduce your environmental impact
- Maximizing your safety, your efficiency and your profits

LEARN MORE ABOUT HOW CLEAN CONCEPTS CAN BRING YOU TO  
THE NEXT LEVEL.

CONTACT US TODAY.





Clean Concepts, Inc