



June 4, 2019

Clear Solutions USA Announces Breakthrough GRAS-Approved Ethanol Plant Cleaning Technology

Gilbert, Arizona – (June 4, 2019) – Industrial cleaning innovator Clear Solutions USA announces a new breakthrough GRAS-approved ethanol plant cleaning technology with the potential to eliminate plant shut-downs requiring hydroblasting, improve ethanol yield, greatly enhance run times, and shorten cleaning cycles. This technology provides ethanol plants a significant cost savings coupled with higher performance and fewer maintenance stops.

CLEAR SOL CIP ETOH-G COMPLETE 20+ technology is a formulated caustic-based concentrated cleaner that is GRAS-approved for ethanol plant cleaning applications when diluted as instructed that controls water hardness up to 20 grains (approximately 350 ppm) and lowers the surface tension of the cleaning solution to 30 dynes/cm. Applications include ethanol processing equipment prone to scale and heavy residue build-up such as evaporators, heat exchangers, separators, and fermentors.

The continuous build-up of scale and residue on equipment surfaces creates serious problems for the ethanol plant such as performance loss, lower production rates, and lower yield due to the loss of heating efficiency. Heat exchangers are highly prone to this phenomenon which leads to costly production stops requiring hydroblasting to properly clean out the equipment. CLEAR SOL CIP ETOH-G COMPLETE 20+ technology prevents such plant shut-downs by utilizing its new patent-pending technology to continuously clean and prevent scale build-up. This allows for longer run-times, shorter rinse cycles, fewer production stops, higher yields, and even lower set-points. All of this improves yield and saves money.

CLEAR SOL CIP ETOH-G COMPLETE 20+ was found to be GRAS-approved by an independent regulatory group for ethanol plant cleaning including CIP (Clean-in-Place) cleaning of the fermentors. When used as instructed for CIP cleaning, this technology will not introduce any harmful residue into the spent grain resulting from the ethanol production process. The spent grain may continue to be used as feed for animals and fish.

About Clear Solutions USA

Clear Solutions USA was formed in 2004 and offers new and unique cleaning technologies to a wide variety of applications. Its innovative technologies are used in major breweries, draft beer lines, milk, cheese, butter, ice cream, poultry, egg, and many other food-based production facilities. Other markets served include pulp and paper and metal finishing. Clear Solutions USA products are proprietary formulas based upon existing and pending patents. Clear Solutions USA has developed a reputation within the industry for providing the distinct combination of cleaning technology development with the most comprehensive level of technical expertise available. Clear Solutions USA has a strong commitment to quality and customer service and offers superior cleaning technology and innovative customer-specific solutions. To learn more, visit www.clearsolutionsusa.com or call 480-539-4276.

Contact:

Clear Solutions USA, LLC

47 N. Ski Court

Gilbert, AZ 85233

Contact: Dianna K. Renfrow 480-236-1974

DiannaRenfrow@gmail.com