

# Ethanol Solutions



Hydrite's ethanol products are GRAS for animal feed and FSMA compliant

## Hydri-Maize™ HC2759

Liquid antimicrobial formulated to decrease dependency on antibiotics

### Features

- Easily dispensed liquid that can be directly injected into infected systems
- Effective over a wide pH range (2.0 - 8.5)

### Value Proposition

- Antibiotic free; effective against both gram negative and gram positive bacteria
- Powerful CIP additive for protein and oxalate removal



## Defender™ L310

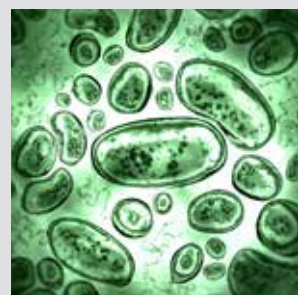
Antibiotic free antimicrobial effective against gram positive & gram negative bacteria

### Features

- Effective at low dosages
- Approved for use in beverage ethanol

### Value Proposition

- Reduction in antibiotic use; potential for an antibiotic free operation
- Promotes metabolic activity



## Hydri-Maize™ Demulsifiers

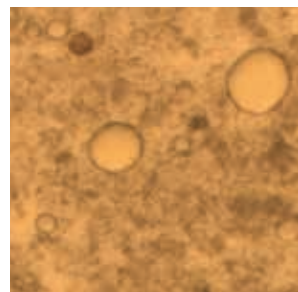
Unique liquid formulations designed to increase distiller's corn oil production

### Features

- Special formulations designed to reduce unit operations scale
- Produces cleaner oil

### Value Proposition

- Increased corn oil recovery
- Decreased use cost



## Hydri-Maize™ CRC 152

Unique blend to replace sodium hydroxide in CIP applications

### Features

- All in one concentrated product used to clean various unit operations in place of caustic

### Value Proposition

- Reduces bacteria, sodium, chemical handling and chemical costs
- Improves water balance



Providing Creative Solutions



## Hydri-Maize™ Catalyzed Bisulfites

Concentrated blend of bisulfites used for VOC abatement in CO2 scrubbers

### Features

- Drop-in replacement for current bisulfites
- Faster kinetics resulting in rapid

### Value Proposition

- Yeast nutrient rich bisulfite blend that reduces carbon dioxide scrubber VOC's
- Decreased material handling
- Reduction in hydrogen peroxide consumption



## Hydri-Maize™ SAR product line

Acid & chelator liquid formulation designed to replace sulfamic acid crystals

### Features

- Pound for pound replacement of sulfamic acid
- Easily applied to the process

### Value Proposition

- Safer than sulfamic acid crystals:
  - Better ergonomics
- Highly cost-effective acid cleaner



## Hydri-Maize™ Scale Control 200

Injected into evaporators to prevent scale formation & improve heat transfer

### Features

- Prevents hard mineral scale formation in unit operations
- Triple-acting scale prevention through chelation, dispersion, & threshold inhibition

### Value Proposition

- Reduction in sulfuric acid consumption
- Improved heating efficiency and water balance control



## Hydri-Maize™ CIP 3421

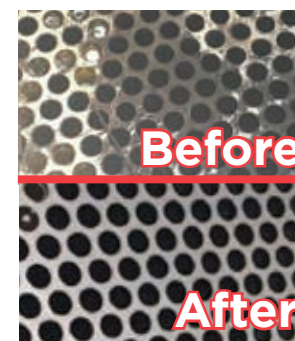
Injected into evaporators to remove protein & mineral scales

### Features

- Hydroxyl free radical extreme cleaning
- Persistent foam suppression
- Reduce cleaning times

### Value Proposition

- Improves caustic cleaning
- Shortened CIP cycles and improves equipment run time



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