

# Catalyzed Bisulfite Case Study



	Ammonium Bisulfite	Hydrite's Catalyzed Bisulfite
VOC's (lb/HR)	7.00	5.01
Total HAP's (lb/HR)	0.909	0.205
HAP Control Efficiency (ppm)	10.4	2.7
Scrubber Water Flow (gpm)	126	96
Bisulfite Dose (ml/min)	250	250
Beer Feed Rate (gpm)	1350	1470
Scrubber Water Temp (F)	57.8	61.0

Using Hydrite's Catalyzed Bisulfites, a 110MGPY Ethanol Plant saw a:

- **77%** Reduction in Total HAP's
- **74%** Improvement in HAP Control Efficiency
- **28%** Reduction in VOC's
- **24%** Reduction in Scrubber Water

All these improvements while at a faster plant rate, with warmer scrubber water, and using the same bisulfite dose.

# Providing Creative Solutions

## Value Added FSMA Compliant Products From Hydrite

- Demulsifiers
  - Polysorbate Free
  - Cold Temperature Demulsification
  - Milo Specific
- Bisulfites
  - Catalyzed
  - Ammonium Bisulfite
  - Sodium Bisulfite
- Liquid Acid CIP Chemicals
- Antifoam Chemistries
- Antibiotics
- Antibiotic Free Solutions
- Chelating Agents
- Caustic Wetting Agents
- Strong Oxidizers for In-Situ Equipment Cleaning
- Bleach
- Acids:
  - Sulfuric
  - Sulfamic
  - Nitric
  - Citric
  - Acetic
  - Phosphoric
  - Peracetic
- Sodium Chlorite (15% and 25%)
- Caustics
- Floor Cleaners
- Equipment Cleaners
- Lab Waste Disposal Services
- Fermentation Nitrogen Sources:
  - Aqua Ammonia
  - Urea
  - Protease
- Yeast Nutrient

### For more information:

Hydrite Chemical Co.  
www.hydrite.com

300 N Patrick Blvd.  
Phone: 262-792-1450

Brookfield, WI 53045  
Email: marketing@hydrite.com