

# H.D. CAUSTIC #1

*Designed to remove the tough soils from Heat Exchangers, Evaporators and UHT units.*

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❖ **BENEFITS**

- ❖ Recommended for tough-to-clean heat exchange surfaces and evaporators.
- ❖ Prevents stain formation on heat exchange surfaces and evaporators.
- ❖ Controls water-hardness and retards scale.
- ❖ Heavy duty and fast action.
- ❖ Heavily chelated to boost cleaning action.

❖ **DESCRIPTION**

H.D. Caustic #1 is a heavy duty alkaline cleaner formulated with multiple chelating and water conditioning agents that promote and maintain a powerful cleaning action, even in hard water. Food deposits, especially grease and fat, are rapidly penetrated and removed from processing surfaces. The unique blend of cleaning ingredients prevents the formation of brown or black stains found on heat exchange surfaces. Solutions of H.D. Caustic #1 exhibit low foam and are particularly suited to CIP and HTST cleaning. In many situations an acid cycle is unnecessary. An acidified water rinse is all that is required.

❖ **PROPERTIES**

APPEARANCE.....WHITE GRANULAR  
 ODOR.....SLIGHT  
 FOAM.....NONE  
 WETTING.....GOOD  
 pH @ 1 oz./gal.....13.0  
 BIODEGRADABLE.....YES

## ❖ *GENERAL USE DIRECTIONS*

Immediately after processing, flush with warm water to remove excess soil. Run a caustic pre-wash if equipped (Optional). Prepare a wash solution between 4-16 ozs. H.D. CAUSTIC # 1 per every 10 gallons of water used. Circulate at 140-180°F for 30-45 minutes. (If equipped reclaim and use for the next caustic wash). Drain system and add acid wash with ACID CLEANER # 1 as directed on its label. Rinse with potable water. Just prior to start-up, sanitize all equipment in accordance with Local Health Codes.

## ❖ *COMPLIANCE*

H.D. CAUSTIC #1 is acceptable to the U.S. Department of Agriculture for use in soak tanks or with steam and mechanical cleaning devices in official meat, poultry, rabbit, and egg processing establishments. After use, equipment must be rinsed with potable water.

## ❖ *SAFETY*

**DANGER: CAUSES SEVERE BURNS TO SKIN AND EYES. HARMFUL OR FATAL IF SWALLOWED.** Contains caustic soda. Avoid breathing dust. Use a respirator. Avoid contact with skin or eyes. Do not take internally. Do not add this product to hot water or hot alkali solutions, or a violent flashback will occur. Do not mix with acids.

### **FIRST AID:**

**For Eyes:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes. Then continue rinsing. Call Poison Control Center or doctor for treatment advice.

**If Swallowed:** Call Poison Control Center or doctor immediately for treatment advice. Have person sip on a glass of water if able to swallow. Do not induce vomiting unless told to do so by the Poison Control doctor. Do not give anything to an unconscious person.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Poison Control Center for treatment advice.

**If Inhaled:** Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a Poison Control Center or doctor for treatment.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measure against circulatory shock, respiratory depression and convulsion may be needed.