ACIDIFIED SODIUM CHLORITE

Commonly known as ASC, Acidified Sodium Chlorite is produced by mixing a solution of sodium chlorite (CAS Reg. No.7758-19-2) with any generally recognized as safe (GRAS) acid. ASC is approved for use as a post-harvest and food safety intervention treatment and antimicrobial in a variety of food processing environments.

FEATURES

- Disinfection and Pathogen control
- Can be applied directly to food products
- Effective against a broad spectrum of microorganisms
- More active than hypochlorites

BENEFITS

- USDA and FDA Approved
- Wide range of food industry applications
- Leaves no residual taste or odor
- Lower overall application cost vs. other intervention chemicals

Approved uses, per 21 CFR 173.325

**Beef**
Approved at up to 1200 PPM on whole carcasses, parts, organs, and processed, comminuted, or formed products. Applied as a spray or a dip.

**Poultry**
Approved for use up to 1200 PPM intact carcasses, carcass parts, poultry meat, organs or trim, and processed, comminute, or formed products. Used in prechiller and chilling solution, as well as applied as a spray or a dip.

**Seafood**
Approved for up to 50 ppm in water or ice used to rinse, wash, thaw, transport, or store product. Approved for use of up to 1200 ppm as a spray or dip in single application processing facilities.

**Fruits and Vegetables**
Approved for up to 1200 ppm as a spray or dip for raw and processed products. Fresh water rinse or further processing required before consumption.
Validation Study on Beef Carcasses

Results of ASC Treatment On Beef Carcasses

Salmonella: Initial inoculum - 320,000 cfu log value = 5.51

![Graph showing salmonella results before and after treatment with ASC. The x-axis represents ppm levels (750, 1000, 1200) and the y-axis represents CFUs. The graph shows a decrease in CFUs after treatment.]

E.Coli Before & After Treatment - Kill Floor: 1100ppm, pH 2.8

![Graph showing E.coli results before and after treatment with ASC. The x-axis represents ppm levels (750, 1000, 1200) and the y-axis represents CFUs. The graph shows a decrease in CFUs after treatment.]

At Crimson Chemicals, we can provide your equipment solutions:

Custom Pump Systems

Our custom built systems are designed to fit a wide variety of water treatment applications at an affordable price. Choose from one of our standard prefabricated units or customize the system to fit your particular needs. All of our systems are designed to be service-friendly and easy to install and maintain.

Custom Spray and Application Systems

We can custom build spray cabinets, spray bars and any dip or spray conveyor system. We can design a spray system for any area in your facility to ensure accurate coverage.

To learn more about our food solutions contact our office at:

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