FOOD DIVISION

EGG & HATCHERIES QUALITY AND SANITATION PROGRAM

BENEATH THE SURFACE
A Complete System and Partnership Approach

Zep Food Division has the resources and breadth of products available to be a fantastic one-stop supplier for all your cleaning and sanitation needs. A wide variety of options exist in all categories to allow you and your Zep rep to customize a portfolio that best meets your specific needs and addresses your challenges. These include:

**Complete Product Line**
- Plant Sanitation Programs
- Antimicrobial Treatments
- Food Contact Surface Sanitizers
- Microbial Control Programs
- Skin Care
- Drain Maintenance
- Food Grade Lubricants
- Cleaning Products for Food Hauling Trucks
- Pest Control
- Laundry
- Building Maintenance

**Value Added Service**
- In-Plant Service Provided by Highly Qualified Reps
- Written Service Reports
- Cost/Consumption Reports
- Sanitation Procedure Training Manuals
- Extensive Product Safety and Handling Support
- Plant Sanitation Inspections
- GMP Audits
- Training
- Engineering Services
- GFSI Audit Prep
- Access to a Full Line of Test Systems (Titration, ATP, etc.)

**Equipment**
- Full Equipment Line
- C.I.P. Cleaning System
- C.O.P. Tanks
- Central Foaming Systems
- Centralized Sanitizing Systems
- Computerized Dispensing Systems
- Wall Mounted and Portable Foarsers
- Full Line of Auxiliary/Complimentary Products

At the Zep Food Division, innovation goes beyond chemical breakthroughs. It’s also about finding better methods of handling the challenges you face every day.
A Recognized Industry Leader

A true partner in food safety sanitation for more than 70 years, our alignment with customers and key industry stakeholders allows us to keep pace with the changing technologies, regulations and best practices impacting our industry.

As a result, we are a Black Pearl Award winner for corporate excellence in food safety and quality. Our leadership encompasses helping you stay ahead of the curve through a combination of operator training, on-site service support, innovative product solutions and shared knowledge in food safety processes.

The Zep Food Division also leverages our alignment with GFSI (Global Food Safety Initiative) standards to create customized programs that reduce the risk associated with microbial outbreaks and effectively deals with them should they occur. This kind of customer collaboration is the cornerstone of our success in the food industry.

Join us for a look beneath the surface and discover how Zep Food Division products, services, and most importantly our people can benefit your operation.

GFSI Alignment

Expertise in programs that support your sanitation and food safety needs is the foundation of everything we do at Zep Food Division. Our alignment with GFSI (Global Food Safety Initiatives) standards and schemes is woven into the fabric of our training, procedures and systems for delivering not only cleaning and sanitation solutions, but equally important, food safety solutions.

We have developed in-house capabilities and have partnered with food safety industry experts who possess and offer the technical knowledge and support necessary to provide you the resources and tools to meet your facility and regulatory requirements.

From GFSI certification schemes to food safety initiatives to sanitation, our Zep team can handle it all. This means providing you the highest quality sanitation chemicals available and the ability to address any food safety or quality concern you may have.

More than just a sanitation chemical provider, Zep is an all-inclusive resource, providing solutions for all of your sanitation and food safety needs.

Our products, cleaning systems, training materials, and technical support translate into tangible benefits that protect your brand and satisfy your specific requirements.
# Zep’s Portfolio

<table>
<thead>
<tr>
<th>Applications</th>
<th>Standard Recommended Product</th>
<th>Premium Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Egg Wash Liquid</strong></td>
<td><strong>Apex Egg Wash</strong> (2283)</td>
<td><strong>Eggstra 500</strong> (7669)</td>
</tr>
<tr>
<td></td>
<td>Non-chlorinated egg wash specially designed for use in shell egg washing automatic injection systems. Contains additives to prevent hard water scale.</td>
<td>Non-chlorinated liquid egg washing formula specially designed for use in shell egg washing automatic injection systems.</td>
</tr>
<tr>
<td><strong>Egg Wash Powder</strong></td>
<td><strong>FS Defoaming Egg Wash</strong> (2388)</td>
<td><strong>FS Chlorinated Defoaming Egg Wash</strong></td>
</tr>
<tr>
<td></td>
<td>Foam control and egg washing compound designed to work in automatic egg washing machines.</td>
<td>A powdered, chlorinated egg wash and foam control compound designed to work effectively in automatic egg washing machines. (3547)</td>
</tr>
<tr>
<td><strong>Defoamer</strong></td>
<td><strong>Apex Egg Defoam Plus</strong> (2963)</td>
<td><strong>FS Foam Control NS</strong> (3114)</td>
</tr>
<tr>
<td></td>
<td>A fast action, non-silicone formula used in egg washing. This product is a free rinsing defoamer that can be used with both alkaline and acid cleaning operations and will not leave an objectionable odor.</td>
<td>Concentrated non-silicone foam suppressant</td>
</tr>
<tr>
<td><strong>Egg Sanitizer</strong></td>
<td><strong>FS Formula 12167</strong> (2429)</td>
<td><strong>FS Formula 4665</strong> (2890)</td>
</tr>
<tr>
<td></td>
<td>Liquid chlorine sanitizer and deodorant for use in all types of food-handling establishments. Uses range from sanitizing equipment to sanitizing eggs. Containing 5.5% sodium hypochlorite.</td>
<td>Highly-concentrated, liquid chlorinated egg sanitizer, fruit and vegetable wash, food processing equipment and other hard surface sanitizer- containing 12.5% sodium hypochlorite.</td>
</tr>
<tr>
<td><strong>Descale</strong></td>
<td><strong>FS Formula 3685</strong> (2494)</td>
<td><strong>XT-2002</strong> (5090)</td>
</tr>
<tr>
<td></td>
<td>Concentrated, phosphoric-acid-based cleaner that removes calcium and protein scale from C.I.P. food processing equipment.</td>
<td>Concentrated, low-foaming nitric/phosphoric acid blended cleaner</td>
</tr>
</tbody>
</table>

**Powder**

- FS Defoaming Egg Wash (2388)
- FS Chlorinated Defoaming Egg Wash (3547)

**Liquid**

- Eggstra 500 (7669)
- Apex Egg Wash (2283)
- Apex Omegachlor (2356)
- FS Z-Chlor (2443)
### Other Cleaners and Sanitizers

<table>
<thead>
<tr>
<th>Applications</th>
<th>Standard Recommended Product</th>
<th>Premium Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Footbaths/Doorway Foamers</strong></td>
<td>Door San (2363)</td>
<td>FS Amine Z (1700)</td>
</tr>
<tr>
<td></td>
<td>Foaming, doorway, quaternary ammonium chloride compound that can be used as a sanitizer or disinfectant for nonfood contact surfaces.</td>
<td>Quat sanitizer with a “twin chain” type quaternary ammonium compound in a water-based formula.</td>
</tr>
<tr>
<td><strong>Environmental Sanitizer</strong></td>
<td>FS Amine A (1921)</td>
<td>FS Amine Z (1700)</td>
</tr>
<tr>
<td></td>
<td>Concentrated deodorant, disinfectant and sanitizer containing a quaternary ammonium compound in a water-based formula.</td>
<td>Quat sanitizer with a “twin chain” type quaternary ammonium compound in a water-based formula.</td>
</tr>
<tr>
<td><strong>Foam Cleaners</strong></td>
<td>Apex ChlorFoam 14 (2353)</td>
<td>FS Formula 4489 (2400)</td>
</tr>
<tr>
<td></td>
<td>Liquid chlorinated caustic cleaner for high foam applications.</td>
<td>Acid cleaner for scale removal and brightening of aluminum, galvanized metal, and stainless steel equipment.</td>
</tr>
<tr>
<td><strong>Acid Foam Cleaners</strong></td>
<td>Apex Foaming Acid (2361)</td>
<td>FS Formula 4089 (2465)</td>
</tr>
<tr>
<td></td>
<td>Economical combination of detergent and non-fuming acids that effectively remove protein scale and hard water deposits from various types of processing equipment.</td>
<td>Extra heavy-duty, chlorinated, caustic cleaner with stable foam that makes it an excellent cleaner for vertical and overhead surfaces.</td>
</tr>
<tr>
<td><strong>General Purpose – mop bucket</strong></td>
<td>FS Process Cleaner X-4490 (2940)</td>
<td>FS Process Cleaner HW (2597)</td>
</tr>
<tr>
<td></td>
<td>Premium high-foam, non-butyl, all surface cleaner and degreaser.</td>
<td>Heavy-duty, high foaming concentrated liquid blend of chelates, alkaline builders, surfactants, water softening agents, and buffering agents. Formulated for use as a cleaner in food processing and preparation areas; especially effective in hard water areas.</td>
</tr>
<tr>
<td><strong>Floor Scrubbers</strong></td>
<td>FS Floor Scrub (2469)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High-concentrate, liquid alkaline cleaner for industrial floors. Contains wetting agents, emulsifiers, and alkaline builders.</td>
<td></td>
</tr>
<tr>
<td><strong>Powder Floor Treatment</strong></td>
<td>FS Floor Treatment X-1102 (5763)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A granular floor treatment product designed to be spread on floors to inhibit microbial growth, and thus reduce the probability of cross-contamination.</td>
<td></td>
</tr>
</tbody>
</table>
Zep SALES & SERVICE COMPANION PRODUCTS FOR THE EGG INDUSTRY:

Cleaners and Sanitizers
- Liquid and Powdered Egg Wash Detergents
- Egg Sanitizers
- General Purpose Alkaline & Acid Foam Cleaners
- Egg Wash Defoamers
- Acid Descalers
- Floor Cleaners and Disinfectants

Hand Care
- E1 and E2 Liquid and Foam Hand Cleaners
- E3 Liquid and Foam Hand Cleaners

Janitorial and Housekeeping
- Restroom Cleaners and Disinfectants
- Stainless Steel Polish
- Paper Products: Hand Towels and Toilet Paper
- Window Cleaners
- Air Freshener
- Hill Brush Mops, Brooms and Squeegees

Maintenance
- Lubricants – H1 Greases and Aerosol Sprays
- SGE™ ClO₂ Coil Cleaners for Cooling & Refrigeration Systems
- Drain Cleaners
- Parts Washers with A1 Cleaners
- Equipment Degreasers
- Pumice and Heavy-Duty Hand Cleaners
- Truck Wash Detergents

Equipment
- Egg Washer Dosing Pumps and Controls
- Sanitizer Systems
- Dilution Control
- Truck Wash Systems
- Paper Product Dispensers
- Foamers
- Allocation Systems
- Pressure Washers
- Hand Care Dispensers

Floor Care
- Strippers, Finishes and Sealers

Poultry Houses
- Dry Quat Crystals and Liquid Quats for Entry Way Door Mats
- Hand Cleaners and Sanitizers
- Cleaners and Disinfectants for Wet Cleaning when Flock is Removed
- Sanitizers to Treat Potable Water for Birds

Insecticides
- Aerosols
- Concentrates
- Bait Crystals