

# Zep FS FORMULA 386L™

## NO-RINSE ACID CLEANER – SANITIZER

### For Food, Dairy, Beverage, Meat, Poultry, Egg and Seafood Processing & Farm Use

PROD. #3386  
0513G  
v.120211

NET CONTENTS:

**5 Gallons  
18.92 Liters**

1234567 2020



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#338635

9625.167

Department of Agriculture  
STATE OF HAWAII

LICENSED

PERIOD 2014-2016 LIC. NO.



LICENSED

PERIOD 2011-2013 LIC. NO.

#### DILUTION CHART

Active Quat Solution	2 gallons of water	4 gallons of water	10 gallons of water	20 gallons of water
150 ppm	1/2 oz.	1 oz.	2 1/2 oz.	5 oz.
200 ppm	2/3 oz.	1 1/3 oz.	3 1/3 oz.	6 2/3 oz.
300 ppm	1 oz.	2 oz.	5 oz.	10 oz.
400 ppm	1 1/3 oz.	2 2/3 oz.	6 2/3 oz.	13 1/3 oz.

#### Directions For Use:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Zep FS Formula 386L is an acid cleaner sanitizer for use on food processing and dairy equipment in water up to 500 ppm hardness as CaCO<sub>3</sub>. For all equipment a preliminary cleaning is required before sanitizing. Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected.

#### TO SANITIZE BULK MILK TANKS AND TO SANITIZE HARD, NONPOROUS SURFACES AND EQUIPMENT IN FOOD, DAIRY, BEVERAGE, MEAT, POULTRY, EGG, AND SEAFOOD PROCESSING PLANTS:

Remove gross filth and soil by preflush or prescrape or, when necessary, by presoak. Then wash surfaces with a compatible detergent and rinse with potable water prior to sanitizing. Apply a use-solution of 1-2 2/3 oz. of Zep FS Formula 386L per 4 gallons of water [150-400 ppm active quat] to precleaned hard surfaces, thoroughly wetting surfaces with a cloth, sponge, coarse sprayer or by immersion. Treated surfaces must remain wet for at least 60 seconds [one minute] followed by adequate draining. Do not rinse. Prepare a fresh solution daily or more often if solution becomes visibly diluted, clouded or soiled. For mechanical application, use-solution may not be reused for sanitizing applications but may be reused for cleaning.

#### TO SANITIZE DAIRY PRODUCT DISPENSING EQUIPMENT AND TO SANITIZE BEVERAGE DISPENSING EQUIPMENT:

1. Remove gross filth and soil by preflush or prescrape or, when necessary, by presoak.
2. Wash equipment with a compatible detergent and rinse with potable water prior to sanitizing.
3. Fill equipment with a solution of 1-2 2/3 oz. of Zep FS Formula 386L per 4 gallons of water [150-400 ppm active quat]. Allow solution to remain in equipment for at least 60 seconds.
4. Drain thoroughly before reuse. Do not rinse.

For removable parts, immerse in use-solution for at least 60 seconds. Do not rinse. For items too large to sanitize by immersion, apply use-solution by rinsing, spraying or swabbing until thoroughly wet for at least 60 seconds. Drain thoroughly before reuse. Do not rinse.

#### TO SANITIZE SANITARY FILLING EQUIPMENT:

Use to sanitize bottles or cans in the final rinse application. Wash surfaces with a compatible detergent and rinse with potable water prior to sanitizing. Prepare a use-solution of 1-2 2/3 oz. of this product per 4 gallons of water for final washer and rinser applications. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly before reuse. Do not rinse.

#### Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.  
**PESTICIDE STORAGE:** Open dumping is prohibited. Store in original container in areas inaccessible to children.  
**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.  
**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and reclose the container. Agitate vigorously, and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

#### FOR INDUSTRIAL AND INSTITUTIONAL USE

EPA REG. No. 6836-83-1270

EPA EST. No. 1270-TX-1(2) or 72424-GA-1(9)  
Postscript is number of batch code on container.

MADE IN THE USA • Sold by: Zep Inc. • 1310 Seaboard Ind. Blvd. • Atlanta, GA 30318



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#### ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride	2.295%
Diocetyl dimethyl ammonium chloride	0.918%
Didecyl dimethyl ammonium chloride	1.377%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride	3.060%

OTHER INGREDIENTS:	92.350%
TOTAL:	100.000%

**KEEP OUT OF REACH OF CHILDREN  
DANGER • PELIGRO**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**Danger.** Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear protective clothing, eyewear (goggles, face shield or safety glasses) and protective gloves (rubber, chemical resistant). Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

#### First Aid:

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.

**IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling poison control center or doctor or going for treatment.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Use Zep FS Formula 386L as a food contact sanitizer at a concentration of 150 – 400 ppm active.

Milkstone and scale can build up on pipelines, storage tanks, tank trucks, silos and processing equipment in the dairy industry. Use of this product will remove milkstone and scale from dairy and cheese making equipment and help maintain the efficiency of the operation as well as eliminate bacterial growth.

Zep FS Formula 386L not only sanitizes but also removes lime and scale in breweries and bottle washing.

Zep FS Formula 386L is an effective food contact sanitizer at 1 oz. per 4 gallons of water (150 ppm active quat) when evaluated by the AOAC Germicidal and Detergent Sanitizer Method in 500 ppm hard water calculated as CaCO<sub>3</sub> against:

Escherichia coli	Salmonella enterica	Vibrio cholerae
Escherichia coli 0157:H7 (pathogenic strain)	Shigella sonnei	Yersinia enterocolitica
Listeria monocytogenes	Staphylococcus aureus	

Zep FS Formula 386L is an effective food contact sanitizer at 2 oz. per 4 gallons of water (300 ppm active quat) when evaluated by the AOAC Germicidal and Detergent Sanitizer Method in 500 ppm hard water calculated as CaCO<sub>3</sub> against:

Campylobacter jejuni	Listeria monocytogenes	Staphylococcus aureus
Escherichia coli	Salmonella enterica	Vibrio cholerae
Escherichia coli 0157:H7 (pathogenic strain)	Shigella sonnei	Yersinia enterocolitica

#### GRADE A PASTEURIZED MILK ORDINANCE:

At 1 – 2 oz. per 4 gallons of water (150 – 300 ppm active quat), this product fulfills the criteria of Appendix F of the Grade "A" Pasteurized Milk Ordinance revised 2007 recommendations of the U.S. Public Health Services.