

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (TS 767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.  
1270-20004

DATE OF ISSUANCE  
SEP 24 1993

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION  
*(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)*

TERM OF ISSUANCE

NAME OF PESTICIDE PRODUCT

Zep FS Formula 12167

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Zep Manufacturing Company  
P.O. Box 2015  
Atlanta, GA 30301

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the above named product subject to the comments recorded in the succeeding paragraph. This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Submit the following information before you release the product for shipment:

The repackaged source product listed for this registration has been transferred. Refer to the attached copy of the Confidential Statement of Formula (CSF) for this product. To update this file, a revised CSF (enclosed) must be correctly filled out and returned.

A stamped copy of the product label is enclosed for your records.

Submit one copy of the final printed labeling before releasing the product in channels of trade with the revised labeling.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Ruth G. Douglas *rwg*  
Product Manager (32)  
Antimicrobial Program Branch  
Registration Division (H7504C)

Enclosures

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

**DANGER:** Corrosive, may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses or goggles and rubber gloves when handling this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**PHYSICAL OR CHEMICAL HAZARDS**

**STRONG OXIDIZING AGENT:** Mix only with water according to label directions. Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, etc.) will release chlorine gas which is irritating to eyes, lungs and mucous membranes.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**NOTE:** This product degrades with age. Use a chlorine kit and increase dosage, as necessary, to obtain the required level of available chlorine.

**STORAGE AND DISPOSAL**

**STORAGE:** Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water.

**PESTICIDE DISPOSAL:** Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**FOOD EGG SANITIZATION IN POULTRY AND EGG PROCESSING PLANTS —**

Thoroughly clean all eggs. Thoroughly mix 5 oz. of this product with 10 gallons of warm water to produce a 200 ppm available chlorine solution. The sanitizer temperature should not exceed 130°F. Spray the warm sanitizer so that the eggs are thoroughly wetted. Allow the eggs to thoroughly dry before casing or breaking. Do not apply a potable water rinse. The solution should not be reused to sanitize eggs.

**SANITIZATION OF SURFACES SUCH AS PROCESSING EQUIPMENT, DAIRY EQUIPMENT, FOOD UTENSILS, DISHES, SILVERWARE, GLASSES, SINK TOPS, COUNTER TOPS, REFRIGERATED STORAGE AND DISPLAY EQUIPMENT AND OTHER NON-POROUS FOOD CONTACT SURFACES IN CANNERIES, MEAT PACKING PLANTS, DAIRIES, AND OTHER FOOD INDUSTRIES —**

**RINSE METHOD —** A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 2-1/2 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 5 oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight.

Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment and do not soak equipment overnight.

Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

**IMMERSION METHOD —** A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 2-1/2 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 5 oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight.

**ZEP FS  
FORMULA  
12167  
CHLORINATED  
DISINFECTANT AND  
GERMICIDE**

**ACTIVE INGREDIENTS:**  
Sodium Hypochlorite ..... 5.25%  
**INERT INGREDIENTS:** ..... 94.75%  
TOTAL ..... 100.00%

**KEEP OUT OF REACH OF  
CHILDREN  
DANGER**

**STATEMENT OF PRACTICAL  
TREATMENT (FIRST AID)**

**IF CONTACT WITH EYES OCCURS,** flush with water for at least 15 minutes. Get prompt medical attention.  
**IF CONTACT WITH SKIN OCCURS,** wash with plenty of soap and water.

**IF SWALLOWED,** drink large amounts of water. DO NOT induce vomiting. Call a physician or poison control center immediately.

See Left Side Panel For Additional Precautionary Statements.

**FOR INDUSTRIAL AND  
INSTITUTIONAL USE ONLY**

E.P.A. Reg. No. 1270-20004      E.P.A. Est. No. 1270-GA-1  
PROD. #2429      492A

American Made...Proudly

**ZEP MANUFACTURING COMPANY**  
Division of National Service Industries, Inc.  
ATLANTA, GEORGIA 30301

CLEAN ACROSS AMERICA AND THROUGHOUT THE  
WORLD™

Clean equipment in the sanitizer to drain the solution or add sanitizer used in a SANITIZATION OF BOARDS, AND C RINSE METHOD — approximately 600 p thoroughly with the s after treatment and c SPRAY/FOG METH can resist hypochlor or fog all surfaces un all surfaces with a 20 product with 10 gallo DISINFECTION O POROUS NON-F RINSE METHOD — approximately 600 p surfaces thoroughly equipment with water

Wet fabrics or clothes yield 200 ppm available chlorine in the regular clothes in the regular add more of this prod

**SLUG FEED METHOD** of water in the system. Subsequent Dose: V or as needed to main is begun.  
**INTERMITTENT FEED** gallons of water in the (or 1/3, 1/4, or 1/5) of Subsequent Dose: W a 1 ppm residual. Ap been lost by blowdow  
**CONTINUOUS FEED** gallons of water in the Subsequent Dose: M lost by blowdown to

This product is de personnel. Label be responsible for directions, or, if pr

**BEST AVAILABLE COPY**

NET CONTENTS: GALS

CONTROL NO

Under the Fungicide, as amended registered

127

# ZEP FS FORMULA 12167 CHLORINATED DISINFECTANT AND GERMICIDE

ACTIVE INGREDIENTS:  
Sodium Hypochlorite ..... 5.25%  
INERT INGREDIENTS: ..... 94.75%  
TOTAL ..... 100.00%

**KEEP OUT OF REACH OF  
CHILDREN  
DANGER**

**STATEMENT OF PRACTICAL  
TREATMENT (FIRST AID)**

IF CONTACT WITH EYES OCCURS, flush with water for at least 15 minutes. Get prompt medical attention.  
IF CONTACT WITH SKIN OCCURS, wash with plenty of soap and water.  
IF SWALLOWED, drink large amounts of water. DO NOT induce vomiting. Call a physician or poison control center immediately.

See Left Side Panel For Additional Precautionary Statements.

**FOR INDUSTRIAL AND  
INSTITUTIONAL USE ONLY**

E.P.A. Reg. No. 1270-20004 E.P.A. Est. No. 1270-GA-1  
PROD. #2429 492A

Made Proudly  
in America  
**ZEP MANUFACTURING COMPANY**  
Division of National Service Industries, Inc.  
**ATLANTA, GEORGIA 30301**

**CLEAN ACROSS AMERICA AND THROUGHOUT THE  
WORLD™**

## DIRECTIONS FOR USE (CONT'D):

Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment. Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

**SANITIZATION OF SURFACES SUCH AS CUTTING BLOCKS, WOOD-TOP TABLES, STEAM TABLE BOARDS, AND OTHER POROUS FOOD CONTACT SURFACES —**

**RINSE METHOD —** Prepare a sanitizing solution by thoroughly mixing 15 oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Rinse equipment with water after treatment and do not soak equipment overnight.

**SPRAY/FOG METHOD —** Pre-clean all surfaces after use. Prepare a 600 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 15 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution. Prepare a 200 ppm sanitizing solution by thoroughly mixing 5 oz. of this product with 10 gallons of water.

**DISINFECTION OF SURFACES SUCH AS CONCRETE FLOORS, TILED WALLS, AND OTHER NON-POROUS NON-FOOD CONTACT SURFACES IN MEAT AND POULTRY PROCESSING PLANTS —**

**RINSE METHOD —** Prepare a disinfecting solution by thoroughly mixing 15 oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the disinfecting solution, maintaining contact with the solution for at least 10 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

## COMMERCIAL LAUNDRY SANITIZERS

Wet fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix 5 oz. of this product with 10 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution into the prewash prior to washing fabrics/clothes in the regular wash cycle with a good detergent. Test the level of available chlorine, if solution has been allowed to stand, add more of this product if the available chlorine level has dropped below 200 ppm.

## COOLING TOWER/EVAPORATIVE CONDENSER WATER —

**SLUG FEED METHOD — Initial Dose:** When system is noticeably fouled, apply 128 to 256 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 25 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

**INTERMITTENT FEED METHOD — Initial Dose:** When system is noticeably fouled, apply 128 to 256 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4 or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown.

**Subsequent Dose:** When microbial control is evident, add 25 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD — Initial Dose:** When system is noticeably fouled, apply 128 to 256 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

**Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 2-1/2 oz. of this product per 1,000 gallons of water lost by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

This product is designed exclusively for industrial and institutional use by trained, professional maintenance personnel. Label directions and precautions must be followed exactly. Zep Manufacturing Company will not be responsible for any injury, loss, or damage, if product is used in any manner not in compliance with label directions, or, if precautions are not observed.

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated**

SEP 24 1993

**BEST AVAILABLE COPY**

NET CONTENTS/GALS

CONTROL NO.

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

1270-20004