

8540-16

6/4/2009

1 of 1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



United States  
Environmental Protection  
Agency

Office of Pesticide Programs

JUN - 4 2009

David W. Grede  
Garratt-Callahan Company  
50 Ingold Road  
Burlingame, CA 94010

**FILE COPY**

Subject: Formula 305  
EPA Registration No. 8540-16  
Submission Dated: May 4, 2009  
Receipt Date: May 12, 2009

Dear Ms. Griffin:

This acknowledges receipt of your notification, submitted under the provision of PR Notice 98-10, FIFRA Section 3(c)9.

**Notification:**

- Update the label to include the NSF logo.

**General Comments:**

Based on a review of the material submitted, the following comments apply:

This notification is acceptable and a copy has been inserted in your file for future reference.

Should you have any questions or comments concerning this letter, please contact me at (703) 308-6345.

Sincerely,

A handwritten signature in black ink that reads 'Wanda Henson'.

Wanda Henson  
Product Reviewer - Team 32  
Regulatory Management Branch II  
Antimicrobials Division (7510C)

2017

Please read instructions on reverse before completing form.

Form Approved AB No. 2070-0060

Print Form



United States Environmental Protection Agency Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 8540-16	2. EPA Product Manager Wanda Hensen	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Formula 305	PM# 32	
5. Name and Address of Applicant (Include ZIP Code) Garratt-Callahan Company 50 Ingold Road, Burlingame, CA 94010 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: <input checked="" type="checkbox"/> EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Product label was updated to include NSF logos to reflect NSF registrations subsequent to EPA approval. Product was registered with NSF for ANSI60 and ANSI61.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Metal Plastic Glass Paper Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name David Grede	Title EH&S Manager	Telephone No. (Include Area Code) 650-667-5811

<p align="center"><b>Certification</b></p> <p>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law.</p>		<p>6. Date Application Received (Stamped)</p>
2. Signature 	3. Title EH&S Manager	
4. Typed Name David W. Grede	5. Date 5/4/09	



April 24, 2009

Mr. David Grede  
GARRATT-CALLAHAN COMPANY  
50 INGOLD ROAD  
BURLINGAME, CA 94010-2206  
UNITED STATES

RE: FORMULA 305  
Category Code: B1, Q4, 3D  
NSF Registration No. 045973

Dear Mr. David Grede:

NSF has processed the application for Registration of **FORMULA 305** to the NSF International Registration Guidelines for Proprietary Substances and Nonfood Compounds (2008), which are available at [www.nsfwhitebook.org](http://www.nsfwhitebook.org). The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient and labeling review.

**This product is acceptable for use in meat, poultry, and other food processing areas as a Fruit and Vegetable Washing Product (3D), when used to wash fruits and vegetables that will become ingredients of meat, poultry, and rabbit products. After using the substance, the fruits and vegetables must be rinsed thoroughly with potable water. Such use requires following the respective label instructions, and shall utilize the minimum amount sufficient for the purpose.**

**This product is acceptable as a laundry product for fabrics contacting food (B1). This product may be used on fabric that contacts meats or poultry products, directly or indirectly, provided that the fabric is thoroughly rinsed with potable water at the end of the laundering operation.**

**This product is acceptable for use as a Shell Egg Sanitizing Product - Chlorine (Q4), to be incorporated in a warm potable water spray rinse for use in sanitizing clean or freshly washed eggs. Shell eggs that have been sanitized with this product may be broken for use in the manufacture of egg products without a prior potable water rinse.**

NSF Registration of this product is current when the NSF Registration Number, Category Code, and Registration Mark appear on the NSF-approved product label, and the Registered product name is included in the current NSF White Book Listing of Nonfood Compounds at the NSF website ([www.nsfwhitebook.org](http://www.nsfwhitebook.org)). The NSF Registration Mark can be downloaded by clicking the "Download Registration Mark" link on the NSF website ([www.nsfwhitebook.org](http://www.nsfwhitebook.org)).

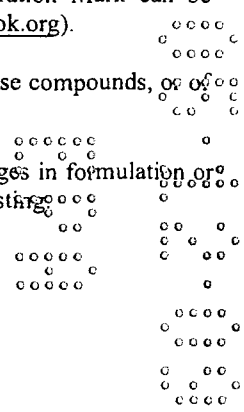
NSF Listing of all Registered Nonfood compounds by NSF International is not an endorsement of those compounds, or any performance or efficacy claims made by the manufacturer.

Registration status may be verified at any time via the NSF website, at [www.nsfwhitebook.org](http://www.nsfwhitebook.org). Changes in formulation or label, without the prior written consent of NSF, will void Registration, and will supersede the on-line listing.

Sincerely,

Clifton J. Mclellan  
NSF Nonfood Compounds Registration Program

Company No: N03491



## FORMULA 305

### DIRECTIONS FOR USE

#### PULP AND PAPER MILL PROCESS WATER SYSTEMS

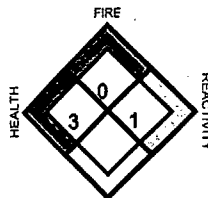
**SLUG FEED METHOD** - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.  
Subsequent Dose: When microbial control is evident, add 11 oz. of this 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 52 to 104 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 blow down.  
Subsequent Dose: When microbial control is evident, add 11 oz. of the 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 blow down. Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD** - Initial dose: When system is noticeably fouled, apply 52 to 104 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 1 oz. of this product per 1,000 gallons of water lost by blow down to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

#### DISINFECTION OF DRINKING WATER (EMERGENCY/PUBLIC/INDIVIDUAL SYSTEMS)

**PUBLIC SYSTEMS:** Mix a ratio of 1 oz. of this product to 100 gallons of water. Begin feeding this solution with a hypo-chlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Primary Drinking Water Regulations. Contact your local Health Department for further details.



UN1791, HYPOCHLORITE SOLUTIONS, 8,  
PGII (CONTAINS > 5% <16% CHLORINE)

**CORROSIVE LABEL REQUIRED**

**INDIVIDUAL SYSTEMS: DUG WELLS** - Upon completion of the casing (lining) wash the interior of casing (lining) with a 100 ppm available chlorine solution using a stiff brush. This solution can be made by thoroughly mixing 1 oz. of this product into 10 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipe sleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Consult your local Health Department for further details.

**INDIVIDUAL SYSTEMS: DRILLED, DRIVEN, & BORED WELLS** - Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 1 oz. of this product into 10 gallons of water. Add 5 to 10 gallons of clean chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Drop pipeline into well, start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Consult your local Health Department for further details.

**INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS** - Artesian wells generally do not require disinfection. If analyses indicate persistent contamination, the well should be disinfected. Consult your local Health Department for further details.

**EMERGENCY DISINFECTION:** When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified, contaminated water to a clean container and add 1 drop of this product to 20 gallons of water. Allow the treated water to stand for 30 minutes. Properly treated water should have a slight chlorine odor, if not, repeat dosage and allow the water to stand an additional 15 minutes. The treated water can then be made palatable by pouring it between clean containers several times.

#### PUBLIC WATER SYSTEMS

**RESERVOIRS - ALGAE CONTROL:** Hypo-chlorinate streams feeding the reservoir. Suitable feeding points should be selected on each stream at least 50 yards upstream from the points of entry into the reservoir.

**MAINS:** Thoroughly flush section to be sanitized by discharging from hydrants. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypo-chlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

NEW TAN product f working water an

NEW FIL The actio sanitizing

POST-HA storage l per ton o 500 ppm

FOOD EC product The sani eggs are Do not aj

FRUIT & tank. Th solution vegetabl solution. fruit with

Remove all litter a other fac other fee detergent least 100 made by halters, r poultry, e manure. livestock feed rack with pota

407

Main Office: 50 Ingold Road, Burlingame, CA 94010 (650) 697-5811 FAX (650) 692-6098

Plants: Addison, IL Atlanta, GA Edison, NJ Dallas, TX Burlingame, CA

www.g-c.com

## ILA 305

..... 12.5%  
..... 87.5%  
..... 100.0%

EACH OF CHILDREN

ANGER

VARY STATEMENTS

### FIRST AID

Ingested: Rinse mouth slowly and gently with water for 15-20 minutes. If present, after the first 5 minutes, then

consult a physician or doctor for treatment advice.

Inhalation: Nothing. If present, breathe with plenty of water for 15-20 minutes. Consult a physician or doctor for treatment advice.

Eye Contact: If present, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Consult a physician or doctor for further treatment advice.

First Aid: Consult a physician or doctor immediately for treatment advice. If unable to swallow, do not give anything by mouth unless told to do so by the poison control center or a physician.

Do not induce vomiting unless instructed by a physician.

When calling a poison control center or hospital, have this product label handy for treatment.

PHYSICIAN: Indicate the use of gastric lavage.

EMERGENCY NUMBER: 222-1222 for emergency medical treatment

You may also call 1-303-623-6716 day or night.

See Additional Precautionary Statements

© 2008 CALLAHAN COMPANY

650-692-6098  
650-697-5811

### 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 test kit and increase dosage, as necessary, to obtain required level of available chlorine.

### COOLING TOWER AND EVAPORATIVE CONDENSER WATER

#### SLUG FEED METHOD

**Initial Dose:** When system is noticeably fouled, apply 52 to 104 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 11 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 52 to 104 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 11 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 52 to 104 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 1 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.



Certified to NSF/ANSI 60

NSF Trade Name: G-C Formula 305  
Maximum Use Level : 84 mg/L

06/2008

MADE IN USA  
Page 1 of 2

5047

NOTIFICATION  
Date Reviewed: 6/4/09  
Reviewed By: W. Johnson

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**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, ponds, streams, 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.

**PHYSICAL AND CHEMICAL HAZARDS**

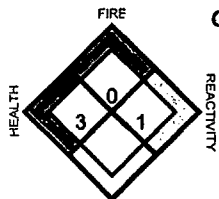
**STRONG OXIDIZING AGENT:** Mix only with water according to label instructions. Mixing this product with chemicals (e.g., ammonia, acids, detergents, etc.) or organic matter (e.g., urine, feces, etc.) will release chlorine gas irritating to eyes, lungs and mucous membranes.

**STORAGE AND DISPOSAL**

Keep 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. If container required a deposit, return it to Garratt-Callahan or its distributor for a refund. If container is a "no deposit" container, then triple rinse and discard. Product or rinseate, that can not be used should be diluted with water before disposal in a sanitary sewer. Do not contaminate food used by storage, disposal or cleaning of equipment.



LISTED (045973)  
Category Code: 3D, B1, Q4



PRODUCT NO. 0915017  
NET WEIGHT 495

UNBROKEN  
NET WEIGHT  
LBS. (54 GAL)

**FORMULA 305**

ACTIVE INGREDIENT - Sodium Hypochlorite	12.5%
OTHER INGREDIENTS	87.5%
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN

**DANGER**

SEE PRECAUTIONARY STATEMENTS

**FIRST AID**

IF IN EYES	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
IF INHALED	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
IF SWALLOWED	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>

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

**NOTE TO PHYSICIAN**

Probable mucosal damage may contraindicate the use of gastric lavage.

**HOT LINE NUMBER**

You may contact the Poison Center at 1-800-222-1222 for emergency medical treatment information.

FOR EMERGENCY MEDICAL TREATMENT You may also call 1-303-623-6716 day or night.

See Side Panel For Additional Precautionary Statements

**SOLD BY: GARRATT-CALLAHAN COMPANY**

EPA REG. NO. 8540-16  
EPA EST. NO. 8540-CA-1

It is a violation  
NOTE - This  
necessary, I

COC

SLUG FEED:  
Initial Dose: 1  
10,000 gallon  
Repeat until  
Subsequent  
10,000 gallon  
the chlorine  
is begun.

INTERMITTENT  
Initial Dose: 1  
10,000 gallon  
half (or 1/3, 1  
system has 1  
Subsequent  
10,000 gallon  
or 1/5) of this  
been lost by  
begun.

CONTINUOUS  
Initial Dose: 1  
10,000 gallon  
Subsequent  
this product  
Badly fouled

1007

Main Office: 50 Ingold Road, Burlingame, CA 94010 (650) 697-5811 FAX (650) 692-6098

Plants: Addison, IL Atlanta, GA Edison, NJ Dallas, TX Burlingame, CA

www.g-c.com

5

casing (lining) wash the  
ion using a stiff brush.  
duct into 10 gallons of  
he well through both the  
ump cylinder also with the  
r of chlorine in water is  
h well until all traces of  
Health Department for

Run pump until water is as  
re sanitizing solution into  
if this product into 10  
to the well in order to force  
cylinder with the sanitizer.  
odor of chlorine in water  
ush well until all traces of  
gh water levels may  
nitizer into the well.

Artesian wells generally do  
nation, the well should be  
tails.

e is not practical, water  
the sanitizer, remove all  
bottom. Decant the  
p of this product to 20  
i. Properly treated water  
w the water to stand an  
able by pouring it between

ding the reservoir. Suitable  
rds upstream from the

from hydrants. Permit a  
ure while injecting this  
a chlorine residual test of  
tion after a 24 hour  
t be flushed free of all

**NEW TANKS, BASINS, ETC.:** Remove all physical soil from surfaces. Place 20 oz. of this product for each 5 cubic feet of working capacity (500 ppm available chlorine). Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to service.

**NEW FILTER SAND:** Apply 80 oz. of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in sanitizing the new sand.

#### AGRICULTURAL USES

**POST-HARVEST PROTECTION:** Potatoes can be sanitized after cleaning and prior to storage by spraying with a sanitizing solution at a level of 1 gallon of sanitizing solution per ton of potatoes. Thoroughly mix 1 oz. of this product to 2 gallons of water to obtain 500 ppm available chlorine.

**FOOD EGG SANITIZATION:** Thoroughly clean all eggs. Thoroughly mix 2 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 re-used to sanitize eggs.

**FRUIT & VEGETABLE WASHING :** Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 5 oz. of this product in 200 gallons of water to make a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for 2 minutes in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only, prior to packaging.

#### FARM PREMISES

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens stalls, chutes and other facilities occupied or traversed by animals or poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. To disinfect, saturate all surfaces with a solution of at least 1000 ppm available chlorine for a period of 10 minutes. A 1000 ppm solution can be made by thoroughly mixing 11 oz. of this product with 10 gallons of water. Immerse all halters, ropes and other types of equipment used in handling and restraining animals or poultry, as well as the cleaned forks, shovels and scrapers used for removing litter and manure. Ventilate buildings, cars, boats and other closed spaces. Do not house livestock or poultry or employ equipment until chlorine has been dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

MADE IN USA

Page 2 of 2

707