



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Antimicrobials Division (7510P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

1258-1398

Date of Issuance:

3/14/20

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

IWC 1100-RW Granular

Name and Address of Registrant (include ZIP Code):

Stephanie H. Stephens  
Arch Chemicals, Inc.  
1200 Bluegrass Lakes Parkway  
Alpharetta, GA 30004

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

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

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Demson Fuller, Product Manager 32  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Date:

3/14/20

2. You are required to comply with the data requirements described in the DCI identified below:

- a. 1-bromo-3-chloro-5,5-dimethylhydantoin GDCI-006315-1606,
- b. 1,3-dichloro-5,5-dimethylhydantoin GDCI-028501-1702
- c. 1,3-dichloro-5-ethyl-5-methylhydantoin GDCI 128826-1703

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36):

<http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, "EPA Reg. No. 1258-1398."

4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 10/24/2019

If you have any questions, please contact Jake McFarley by phone at (703) 347-0123, or via email at [McFarley.Jake@epa.gov](mailto:McFarley.Jake@epa.gov).

Sincerely,



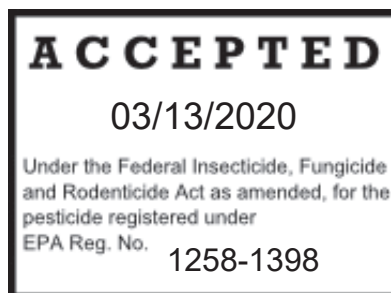
Demson Fuller, Product Manager 32  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure: Master Label

# IWC 1100-RW Granular

## Active Ingredients:

1-bromo-3-chloro-5,5-dimethylhydantoin ..... 54.2%  
1,3-dichloro-5,5-dimethylhydantoin ..... 28.9%  
1,3-dichloro-5-ethyl-5-methylhydantoin ..... 15.9%  
Other Ingredients ..... 1.0%  
Total: ..... 100.0%



Total Available Halogen as Bromine: 141%  
(and/or)  
Total Available Halogen as Chlorine: 62.8%

EPA Reg. No. 1258-RGOI  
EPA Est. No. 6836-PA-01  
NET WEIGHT: (as marked on container)  
[Country of origin (insert country)]  
[Manufactured in (insert country)]  
[Barcode]

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

[Note to Reviewer. The signal word for this product is "DANGER". The following components of this master label, at a minimum, will appear on the front panel of all distribution labels. If the distribution label has a single panel and multiple columns, these components will appear in the center column or in an immediately adjacent column: Product Brand Name, Ingredient Statement, Signal Word, Child Hazard Warning, First Aid Statement, Company Name and Address, EPA Registration Number, EPA Establishment Number.]

See side / back / right / left panel for Precautionary Statements

Arch Chemicals, Inc.  
1200 Bluegrass Lakes Parkway  
Alpharetta, GA 30004

Emergency Contact Number: ( )

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

**DANGER. CORROSIVE.** Causes irreversible eye damage and skin burns. May be fatal if swallowed. Harmful if inhaled. Avoid breathing dust. Use with adequate ventilation. Do not get into eyes, on skin or on clothing. Users must wear coveralls worn over long-sleeved shirt and long pants, socks, and chemical-resistant footwear, chemical resistant gloves, protective eyewear including goggles, face shield or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**FIRST AID**

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

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

**IF ON SKIN OR CLOTHING:** 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. 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.

**PHYSICAL AND CHEMICAL HAZARDS**

**CHEMICAL HAZARD: STRONG OXIDIZING AGENT.** Mix only with water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well-ventilated area. Flood with large volumes of water, if necessary.

### **FOR INDUSTRIAL USE**

Technical advice regarding specific on site problems are available from Arch Chemicals, Inc. A Material Safety Data Sheet relative to the use of this product is also available upon request.

### **DIRECTIONS FOR USE**

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

Labeled uses for control of bacteria and fungi are for use against non public-health organisms only (e.g. odor causing bacteria/fungi).

### **RECIRCULATING COOLING WATER SYSTEMS AND SEWAGE SYSTEMS**

**IWC 1100-RW Granular** aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water towers, influent systems such as flow through filters, industrial water scrubbing systems, brewery pasteurizers, sewage systems (septic tanks, leach fields, tank lines, sewers, lagoons, and sewage effluent water), photo processing wash water and paper and paperboard process water.

This product may be added to the systems either continuously or intermittently or as needed. Do not exceed labeled use rates. The frequency of feeding and duration of the treatment will depend upon the severity of the problem.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

### **FOR CONTROL OF NON-PUBLIC HEALTH BACTERIA AND FUNGI INTERMITTENT OR SLUG METHOD**

**INITIAL DOSE:** When the system is noticeably fouled add 0.1 to 1.0 pounds per 1000 gallons (or 12 to 120 ppm) of the water in the system. Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident add 0.1 to 0.75 pounds per 1000 gallons (or 12 to 90 ppm) of water in the system every 3 days or as needed to maintain control.

### **CONTINUOUS FEED METHOD**

**INITIAL DOSE:** When a system is noticeably fouled, add 0.1 to 1.0 pound per 1000 gallons (or 12 to 120 ppm) of water in the system.

**SUBSEQUENT DOSE:** Continuously feed to maintain dosage of 0.1 to 0.75 pounds per 1000 gallons (or 12 to 90 ppm) of water in the system.

### **FOR CONTROL OF ALGAE INTERMITTENT OR SLUG METHOD**

**INITIAL DOSE:** When the system is noticeably fouled add 0.1 to 1.0 pound per 1000 gallons (or 12 to 120 ppm) of water in the system. Repeat until control is achieved.

**SUBSEQUENT DOSE:** When algae control is evident add 0.1 to 0.75 pounds per 1000 gallons (or 12 to 90 ppm) daily or as needed to maintain control.

### **CONTINUOUS FEED METHOD**

**INITIAL DOSE:** When the system is noticeably fouled add 0.1 to 1.0 pound per 1000 gallons (or 12 to 120 ppm) of water in the system. Repeat until control is achieved.

**SUBSEQUENT DOSE:** Continuously feed to maintain a dosage of 0.12 to 0.75 pounds per 1000 gallons (or 12 to 90 ppm) of water in the system.

### **AIRWASHERS**

For use only in industrial airwasher systems that maintain effective mist eliminating components.

**IWC 1100-RW Granular** inhibits slime forming, non-public health bacteria, fungi and algae in industrial airwasher systems. Add **IWC 1100-RW Granular** at the rate of 0.1 to 1.0 pound (12 to 120 ppm) per 1000 gallons of water in the system, depending upon the severity of the contamination.

Control the application by measuring the free chlorine residual in the treated water. There is no need to exceed 1.0 ppm as free chlorine.

Badly fouled systems must be cleaned before treatment is begun.

#### INTERMITTENT OR SLUG METHOD

**INITIAL DOSE:** When system is noticeably fouled add to airwasher sump or chill water sump to ensure uniform mixing. Add 0.1 to 1.0 pound per 1000 gallons (or 12 to 120 ppm) of water.

**SUBSEQUENT DOSE:** When microbial control is evident add 0.1 to 0.60 pounds per 1000 gallons (or 12 to 72 ppm) of water.

#### CONTINUOUS FEED METHOD

**INITIAL DOSE:** When system is noticeably fouled add to airwasher sump or chill water sump to ensure uniform mixing. Add 0.1 to 1.0 pound per 1000 gallons (or 12 to 120 ppm) of water.

**SUBSEQUENT DOSE:** When microbial control is evident add 0.1 to 0.6 pounds per 1000 gallons (or 12 to 72 ppm) of water.

#### ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

Must wear chemical resistant gloves while placing the tablet in the once through cooling tower system.

When used as directed, **IWC 1100-RW Granular** effectively controls non-public health algal, bacterial, fungal slimes and mollusks in open or closed-cycle, fresh or salt water, once-through cooling systems. Treat cooling water with **IWC 1100-RW Granular** at the system intake or other critical areas, where mixing is uniform.

#### DOSAGE RATES

**INITIAL DOSE:** When system is noticeably fouled, add 0.2 to 0.6 pounds per 1000 gallons of water contained in the system. Repeat initial dosage until one to three ppm (mg/L) bromine residual is established for at least 4 hours.

**SUBSEQUENT DOSE:** When microbial control is evident, add 0.1 to 0.3 pounds per 1000 gallons of water contained in the system. Repeat as needed to maintain one to three ppm bromine residual for at least 4 hours.

#### FOR USE IN CANISTERS

**TO INSTALL CANISTER:** Take feeder cap off. Remove canister cut offs. Hold canister so the open end faces down. Insert into feeder. The end of the canister must align with the L-key located inside the feeder at the bottom. DO NOT FORCE. Replace feeder cap. To achieve the proper halogen residual, turn the control dial to the appropriate setting and add the required product dosage. Refer to use directions for recirculating cooling water systems and sewage systems or airwasher systems, as appropriate.

Check the canister periodically and replace when empty. Do not attempt to open or refill this canister. DO NOT REUSE.

#### **PRECAUTION:**

The warranty will be void if this canister is not used with the appropriate feeder. Fire or explosion may result if this canister is used with an incorrect chemical feeder.

**NOTE:** Some settling may occur during shipment.

#### FOR USE IN SOLV-ALL FEEDERS

To Install/Replace Chemical Cartridge (Jar): Turn off water supply valve on feeder. Remove empty cartridge (jar) and properly discard per label directions. Remove cartridge (jar) lid from full unit and insert, top down, into mixing bowl. Re-open water supply valve. Adjust the pump setting to achieve proper halogen residual. Refer to use directions for recirculating cooling water systems and sewage systems or airwasher systems, as appropriate.

Check the cartridge (jar) periodically and replace when empty.

**DO NOT ATTEMPT TO OPEN OR REFILL THIS UNIT.**

**DO NOT REUSE.**

#### PHOTO PROCESSING WASH WATER

The photo processing system should first be properly cleaned with a mild hypochlorite solution following manufacturer's instructions. The use of **IWC 1100-RW GRANULAR** IS NOT intended to remove an existing buildup of biological growth. **IWC 1100-RW GRANULAR** slowly releases both hypobromous and hypochlorous

acid when exposed to a flow of water. To prevent or substantially reduce biological growth, **IWC 1100-RW GRANULAR** may be introduced into the wash water by suspending **IWC 1100-RW GRANULAR** directly in the wash tanks as far as possible from film or paper and away from areas of extreme turbulence. Begin by placing **IWC 1100-RW GRANULAR** in the wash tank. If biological growth is observed, add more **IWC 1100-RW GRANULAR** waiting several hours between additions. To prevent film damage, rinse **IWC 1100-RW GRANULAR** in water before placing into wash tank. It is intended that 1.0 to 3.0 ppm of residual bromine be introduced into the water supply line. Three to nine grams of **IWC 1100-RW GRANULAR** will introduce 1.0 to 3.0 ppm residual bromine in 1,000 gallons of water. Actual use will depend on the amount of biological fouling. To avoid excess introduction of bromine into the processor wash tanks, a bromine test kit should be used to periodically test the water in the wash tanks. If a residual above 3.0 ppm is indicated, remove **IWC 1100-RW GRANULAR** until the residual drops to 1.0 ppm. If the processor is turned off for any extended period of time, the **IWC 1100-RW GRANULAR** in the wash tanks should be removed.

**NOTE:** Seller liability under all warranties, expressed or implied, is limited to replacement of defective product and seller shall have no liability for consequential damages.

### **PAPER AND PAPERBOARD PROCESS WATER**

**IWC 1100-RW Granular** is a patented biocidal formulation for application in the paper industry.

**IWC 1100-RW Granular** prevents non-public health bacterial slime formation and deposition through the rapid delivery of an ideal balance of free and combined halogen. When used properly, **IWC 1100-RW Granular** can reduce microbiologically induced corrosion, paper spots, holes, breaks and odors. By limiting microbial growth and bacterial slime formation, **IWC 1100-RW Granular** increases machine runnability reducing unscheduled maintenance and lost production.

The patented **IWC 1100-RW Granular** composition provides high solubility, fast dissolution and high halogen content without added binders for maximum efficiency and product delivery.

**IWC 1100-RW GRANULAR** can be used in the manufacture of non-food contact paper and paperboard.

### **APPLICATION**

**IWC 1100-RW Granular** should be added to process water streams at or immediately prior to a point of sufficient mixing such as the fan pump or wire pit.

Standard dissolution feeders can be used for **IWC 1100-RW GRANULAR** applications. Make-up, machine white waters and returning clarified dilution waters are examples of acceptable treatment waters.

**INITIAL DOSE:** When the system is noticeably fouled apply 0.5 - 2.0 pounds of **IWC 1100-RW GRANULAR** per ton of paper produced to achieve 0.1-1.0 ppm total available halogen as chlorine. Repeat treatment until residual is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, apply 0.5 – 2.0 pounds of **IWC 1100-RW GRANULAR** per ton of paper produced to achieve 0.1-1.0 ppm total available halogen as chlorine. Repeat periodically as needed to maintain control.

**(Note to reviewer: For Nonrefillable Containers, Product is non-dilutable solid)**

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Keep container tightly closed. Store in a cool, dry, well-ventilated place. Do not store in direct sunlight. Do not store at temperatures above 100°F.

**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 the label instructions contact your State pesticide or environmental control agent or the hazardous waste representative at the nearest EPA regional office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container.

**(Metal and plastic containers:)** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate or burn if allowed by State and local authorities. If burned, stay out of smoke. If not tripled rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

**(Metal containers only:)** DO NOT cut or weld metal containers.

**(Fiber drums and liners:)** Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Then dispose of liner and drum in a sanitary landfill or incinerate if allowed by State and local authorities. Do not reuse empty drum or liner.

**(Bulk Bag/Super Sack Container:)** Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. If not emptied in this manner, the bag may be considered an acute hazardous waste and must be disposed in accordance with local, state and federal regulations. When completely empty, offer for recycling if available or dispose of bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**(Note to reviewer: For Refillable Commercial/Industrial/Institutional Use Containers, Product is non-dilutable solid)**

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Refillable container. Refill this container with [this product] only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller.

**(Metal and plastic containers:)** Attach tamper evident devices (seals) to all openings, except vents, and return to the manufacturer for refilling.

**(Tote Containers:)** Empty tote container must be returned to a tote collection agent.

**PESTICIDE STORAGE:** Keep container tightly closed. Store in a cool, dry, well-ventilated place. Do not store in direct sunlight. Do not store at temperatures above 100°F.

**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 the label instructions contact your State pesticide or environmental control agent or the hazardous waste representative at the nearest EPA regional office for guidance.

**FINAL CONTAINER DISPOSAL:** Cleaning the container before final disposal is the responsibility of the person disposing of the container.

**(Metal and plastic containers:)**

To clean the container before final disposal empty remaining contents from container for use according to use directions and triple rinse promptly after emptying. Triple rinse (or equivalent).

**(Tote Containers:)**

To clean the container before final disposal empty remaining contents from container for use according to use directions and triple rinse promptly after emptying. Triple rinse (or equivalent). For additional container disposal information, contact product supplier.