



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 12, 2015

Ms. Liane Jenkins  
Senior Regulatory Compliance Specialist  
Lonza, Inc.  
90 Boroline Road  
Allendale, NJ 07401

Subject: Label Amendment – Update precautionary language, add non-refillable language to the storage and disposal and remove the outdoor uses (sewers, lagoons and sewage effluent water).  
Product Name: **MCDMH-EUP**  
EPA Registration Number: **6836-324**  
Application Date: January 20, 2015  
Decision Number: 499389

Dear Ms. Jenkins:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Killian Swift by phone at 703-308-6346, or via email at [Swift.Killian@epa.gov](mailto:Swift.Killian@epa.gov)

Sincerely,

A handwritten signature in blue ink that reads "Wanda J. Fuller, for". The signature is written in a cursive style.

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

Enclosure

# MCDMH-EUP

Active Ingredients:

1-chloro-5,5-dimethylhydantoin .....	90.025%
1,3-dichloro-5,5-dimethylhydantoin .....	8.675%
Other Ingredients: .....	1.300%
TOTAL: .....	100.000%

Available chlorine: 44.6%

**KEEP OUT OF REACH OF CHILDREN**

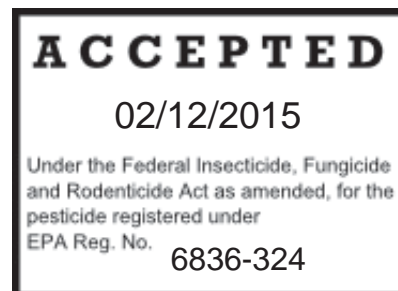
**DANGER [PELIGRO]**

See [side] [back] [right] [left] panel for Precautionary Statements and First Aid

EPA Reg. No. 6836-324  
EPA Est. No. 6836-PA-01  
Net Weight: 35 grams

[DOT Symbols]  
[Country of origin (*insert country*)]  
[Manufactured in (*insert country*)]  
[Barcode]

Manufactured by:  
LONZA Inc., 90 Boroline Road, Allendale, NJ 07401



## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** Highly corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed. Irritating to nose and throat. Do not get in eyes, on skin or on clothing. Do not take internally. Avoid breathing dust and fumes. Wear protective eyewear (goggles or safety glasses), protective clothing and protective gloves (rubber or chemical-resistant) when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking or 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.

### **PHYSICAL AND CHEMICAL HAZARDS**

**STRONG OXIDIZING AGENT.** Mix only with water. Do not mix with other chemicals. Add product to large quantities of water. Never add water to product. 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.

*{Note to reviewer: The following is considered optional marketing language.}*

**MCDMH-EUP** eliminates 99.9% of *Staphylococcus aureus* and *Klebsiella pneumoniae* in 10 minutes.

**MCDMH-EUP** meets EPA's Sanitizer Test standards for non-food contact sanitizers.

**[TYPES OF SURFACES:]**

Use **MCDMH-EUP** on washable hard, nonporous surfaces of:

*{Note to reviewer: Each entry below also represents a graphic depicting the corresponding type of surface. No people, animal or food will be depicted in graphics. Only exteriors of microwaves and refrigerators will be depicted.}*

Appliances, exteriors  
Bathroom fixtures  
Bathtubs  
Cabinets  
Cages  
Chairs  
Coils and drain pans of air conditioning and refrigeration equipment and heat pumps  
Conductive flooring  
Desks  
Doorknobs  
Fiberglass bathtubs  
Fiberglass sinks  
Floors  
Garbage cans  
Kennel runs  
Microwave ovens, Exterior Surfaces of  
Outdoor [patio] furniture, except cushions and wooden frames  
Refrigerators, Exterior Surfaces of refrigerated storage and display equipment  
Showers  
Shower stalls  
Sinks [bathroom, kitchen]  
Stoves [stovetops]  
Tables, [Non-wooden picnic tables]  
Telephones  
Toilets  
Toilet bowls  
Toilet bowl surfaces  
Tubs  
Tiles, glazed  
Ultrasonic baths  
Urinals  
Walls  
Whirlpool bathtubs

Questions? Comments? Call *(insert telephone number here)*

This product contains no phosphates or phosphorous compounds. No mess.

*{If the following Spanish statement is used, it must appear directly above DIRECTIONS FOR USE.}  
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. [If you do not understand the label, find someone to explain it to you in detail.]*

## **DIRECTIONS FOR USE**

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

### **TO SANITIZE, CLEAN AND DEODORIZE**

#### **FOR CLEANING AND DEODORIZING:**

Apply use-solution to hard nonporous non-food contact surfaces, thoroughly wetting surfaces with a cloth, mop, sponge or sprayer. Wipe dry with a clean cloth, sponge or mop or allow surfaces to air dry.

#### **TO SANITIZE:**

1. To prepare **MCDMH-EUP** use solution [15 ppm, as Cl<sub>2</sub>], dissolve 1 gram of **MCDMH-EUP** in 7.8 gallons of water.
2. Apply **MCDMH-EUP** to sanitize pre-cleaned hard nonporous non-food contact surfaces with a cloth, mop, sponge, wiper or coarse sprayer.
3. Rub with a brush, sponge, wiper or cloth.
4. Treated surfaces must remain wet for 10 minutes. Wipe dry with a clean cloth or sponge or allow to air dry.
5. For sprayer applications, use a coarse spray device. Spray 6 – 8 inches from surface. Avoid breathing spray.

### **RECIRCULATING COOLING WATER SYSTEMS<sup>1</sup>**

**MCDMH-EUP** aids in the control of bacterial, fungal and algal slimes in commercial and industrial cooling towers; heat exchange water systems; evaporative condensers; influent water systems such as flow-through filters, cooling ponds, canals and lagoons; industrial water scrubbing systems; brewery pasteurizers; sewage systems [septic tanks, leach fields, tank lines]; photo processing wash water; industrial air washing systems equipped with a mist eliminator; cannery cooling, cannery water, cannery package warmers, cannery pasteurizer water and retort water.

This product may be added to the systems either continuously or intermittently or as needed. 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 BACTERIA AND FUNGI**

#### **INTERMITTENT OR SLUG METHOD**

**Initial Dose:** When the system is noticeably fouled add 0.1 to 1.0 pounds to 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 to 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 pounds to 1000 gallons [or 12 to 120 ppm] of water in the system.

**Subsequent Dose:** Continuously feed at a rate of 0.1 to 0.75 pounds to 1000 gallons [or 12 to 90 ppm] of system water.

## FOR CONTROL OF ALGAE

### 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 algae control is evident add 0.1 to 0.75 pounds to 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 pounds to 1000 gallons [or 12 to 120 ppm] of water in the system. Repeat until control is achieved.

**Subsequent Dose:** Continuously feed at a rate of 0.1 to 0.75 pounds per day per 1000 gallons [or 12 to 90 ppm] of system water.

## AIRWASHERS<sup>1</sup>

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

**MCDMH-EUP** controls slime forming bacteria, fungi and algae in industrial airwasher systems. Add **MCDMH-EUP** 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 insure 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 insure 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.

## PHOTO PROCESSING WASH WATER<sup>1</sup>

The photo processing system should first be properly cleaned with a mild hypochlorite solution following manufacturer's instructions. The use of **MCDMH-EUP** IS NOT intended to remove an existing buildup of slime. **MCDMH-EUP** slowly releases hypochlorous acid when exposed to a flow of water. To prevent or substantially reduce slime, **MCDMH-EUP** may be introduced into the wash water by suspending **MCDMH-EUP** directly in the wash tanks as far as possible from film or paper and away from areas of extreme turbulence. Begin by placing **MCDMH-EUP** in the wash tank. If slime is observed, add more **MCDMH-EUP** waiting several hours between additions. To prevent film damage, rinse **MCDMH-EUP** in water before placing into wash tank. It is intended that 0.5 to 1.5 ppm of residual chlorine be introduced into the water supply line. Four to twelve grams of **MCDMH-EUP** will introduce 0.5 to 1.5 ppm residual chlorine in 1,000 gallons of water. Actual use will depend on the amount of biological fouling. To avoid excess introduction of chlorine into the processor wash tanks, a chlorine test kit should be used to periodically test the water in the wash tanks. If a residual above 1.5 ppm is indicated, remove **MCDMH-EUP** until the residual drops to 0.5 ppm. If the processor is turned off for any extended period of time, the **MCDMH-EUP** 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.

<sup>1</sup>**Not approved for use in California**

## STORAGE AND DISPOSAL

**STORAGE:** Do not contaminate water, food, or feed by storage or disposal. Keep container tightly closed. Store in a cool, dry well-ventilated area inaccessible to children. Do not store at elevated temperatures.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray or mixture of 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.

**Metal Containers:** Triple rinse [or equivalent], then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**Plastic Containers:** Triple rinse [or equivalent], then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Fiber Drums with Liners:** Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.