

U.S. PUBLIC HEALTH SERVICE
FOOD SERVICE
SANITIZATION RECOMMENDATIONS

Cleaning and Sanitizing

Equipment and utensils shall be thoroughly preflushed or prescrapped and when necessary, presoaked to remove gross food particles and soil.

- 1) Thoroughly wash equipment and utensils in a hot detergent solution.
- 2) Rinse utensils and equipment thoroughly with clean water.
Sanitize equipment and utensils by immersing in a 1 oz./4 gallon solution of ~~Multiquat No. 455~~ (150 ppm active) for at least 60 seconds at a temperature of 75°F. This solution is equivalent to a solution containing 50 ppm available chlorine.
- 4) For equipment and utensils too large to sanitize by immersion, apply a 1 oz./2 gallon solution of ~~Multiquat No. 455~~ (300 ppm active) by rinsing, spraying or swabbing until thoroughly wetted.
- 5) Allow sanitized surfaces to drain and air dry. Do not rinse.

Multiquat, No. 455 meets the requirements of 21 CFR 178.1010.

Sanitizing of Food Processing Equipment and Other Hard Surfaces in Food Contact Locations. For sanitizing food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, and display counter tops, refrigerated storage and display equipment and other hard non-porous surfaces. **No Potable water rinse is required.**

Wash and rinse articles thoroughly, then apply a solution of 1 oz. Multiquat, No. 455 in 4 gallons of water (150 ppm active). Surfaces should remain wet for at least one minute, followed by adequate draining and air drying. Fresh solution should be prepared daily or when use solution becomes visibly dirty. For mechanical application, use solution may not be reused for sanitizing applications.

Apply to sink tops, counter tops, refrigerated storage and display equipment and other stationary hard surfaces by cloth or brush or mechanical spray device. **No Potable water rinse is required.**

Dishes, silverware, glasses, cooking utensils and other similar size food processing equipment can be sanitized by immersion in a 1 oz./4 gallon solution of Multiquat, No. 455. **No Potable water rinse is required.**

At 1 oz./4 gallons, Multiquat, No. 455 fulfills the criteria of Appendix F of the Grade "A" Pasteurized Milk Ordinance 1978 Recommendations of the U.S. Public Health Service in waters up to 400 ppm of hardness calculated as CaCO₃, when evaluated by the AOAC Germicidal and Detergent Sanitizer Method against *Escherichia coli* and *Staphylococcus aureus*.

The udders, flanks and teats of dairy cows can be sanitized by washing in a solution of 1 oz. Multiquat, No. 455 in 4 gallons of warm water. **No Potable water rinse is required.** Use a fresh towel for each cow. Avoid contamination of sanitizing solution by dirt and soil. Do not dip used towel bar into sanitizing solution. When solution becomes visibly dirty, discard and provide fresh solution.

Precautionary Statements

Hazards to Humans and domestic animals

DANGER

Keep out of reach of children. Corrosive. Causes eye and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Do not breathe spray mist. Avoid contamination of food.

STORAGE AND DISPOSAL

- DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL
- OPEN DUMPING IS PROHIBITED
- DO NOT REUSE EMPTY CONTAINER

PESTICIDE DISPOSAL

PESTICIDE SPRAY MIXTURE OR RINSE WATER THAT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS MUST BE DISPOSED OF ACCORDING TO FEDERAL OR APPROVED STATE PROCEDURES UNDER SUBTITLE C OF THE RESOURCE CONSERVATION AND RECOVERY ACT.

CONTAINER DISPOSAL

TRIPLE RINSE (OR EQUIVALENT), THEN OFFER FOR RECYCLING OR RECONDITIONING OR DISPOSE OF IN A SANITARY LANDFILL, OR BY INCINERATION IF ALLOWED BY STATE AND LOCAL AUTHORITIES.

GENERAL

CONSULT FEDERAL STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

MULTIQUAT, No. 455

**Disinfectant-Sanitizer
Fungicide-Virucide*-Deodorizer
with Organic Soil Tolerance
for Hospital, Institutional
Industrial, School, Dairy and Other Farm Use**

Active Ingredients

Octyl decyl dimethyl ammonium chloride	2.250%
Didecyl dimethyl ammonium chloride	1.125%
Diocetyl dimethyl ammonium chloride	1.125%
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₀ , 10%) dimethyl benzyl ammonium chloride	3.000%

Inert Ingredients

92.500%
100.000%

KEEP OUT OF REACH OF CHILDREN

DANGER

Statement of Practical Treatment

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution; or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

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

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Registration No.	2686-
EPA Establishment No.	2686-IA-1
Net Contents	

Manufactured by
HYDRITE CHEMICAL COMPANY
2655 N. Mayfair Road, Milwaukee, WI 53226
**For Sale For Use And Storage
By Maintenance Personnel Only**

ACCEPTED
BY COMMENTS
In EPA Letter 10/24/84

AUG 29 1984

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

2686-8

BEST DOCUMENT AVAILABLE

Proceeding Equipment and Other Hard Surfaces in Food
 For sanitizing food processing equipment, dairy
 sinks, dishes, ware, glasses, tin tops, countertops,
 and display equipment and other hard non-porous
 water lines is required.
 surfaces thoroughly. Then apply a solution of 1 oz. Multiquat,
 of water (150ppm active). Surfaces should remain wet for
 followed by adequate draining and air drying. Fresh
 prepared daily or when use solution becomes visibly dirty.
 application use solution may not be reused for sanitizing
 countertops, refrigerated storage and display equipment
 by hard surfaces by cloth or brush or mechanical spray
 water lines is required.
 glasses, cooking utensils and other similar size food
 can be sanitized by immersion in a 1/2 oz./4 gallon
 solution. No Potable water lines is required.
 Multiquat, No. 455 fulfills the criteria of Appendix F of the
 Federal Meat Inspection Act 1970 Recommendations of the U.S.
 in waters up to 800 ppm of hardness calculated as
 calcium carbonate. It is listed by the AOAC Germicidal and Detergent Sanitizer
 for *Shewanella putrefaciens* and *Staphylococcus aureus*.
 in stalls of dairy cows can be sanitized by washing with a
 solution of 1/2 oz. Multiquat, No. 455 in 4 gallons of warm water. No Potable
 water lines is required. Use a fresh towel for each cow. Avoid contamination
 by dirt and soil. Do not do used towel back into sanitizing
 solution becomes visibly dirty. discard and provide fresh

Primary Statements
 Humans and domestic animals

DANGER
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 Do not get in eyes, on skin, or on clothing.
 Use face shield and rubber gloves when handling.
 Allowed. Do not breathe spray mist. Avoid
 of food.

ORAGE AND DISPOSAL
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 OF THE RESOURCE CONSERVATION AND
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 BY LANDFILL, OR BY INCINERATION IF
 STATE AND LOCAL AUTHORITIES

FEDERAL, STATE OR LOCAL DISPOSAL
 FOR APPROVED ALTERNATIVE

AVAILABLE

MULTIQUAT, No. 455

**Disinfectant-Sanitizer
 Fungicide-Virucide[®]-Deodorizer
 with Organic Soil Tolerance
 for Hospital, Institutional
 Industrial, School, Dairy and Other Farm Use**

Active Ingredients	
Octyl decyl dimethyl ammonium chloride	2.250%
Didecyl dimethyl ammonium chloride	1.125%
Diocetyl dimethyl ammonium chloride	1.125%
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) dimethyl benzyl ammonium chloride	3.000%
Inert Ingredients	
	92.500%
	100.000%

KEEP OUT OF REACH OF CHILDREN

DANGER

Statement of Practical Treatment

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

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

**SEE LEFT PANEL FOR ADDITIONAL
 PRECAUTIONARY STATEMENTS**

EPA Registration No.	2686-
EPA Establishment No.	2686-IA-1
Net Contents	

Manufactured by
HYDRITE CHEMICAL COMPANY
 2655 N. Mayfair Road, Milwaukee, WI 53226
**For Sale For Use And Storage
 By Maintenance Personnel Only**

Directions for Use
GENERAL CLASSIFICATION

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

Apply Multiquat, No. 455 with a cloth, mop or mechanical spray device. When applied with a mechanical spray device, surface must be sprayed until thoroughly wetted. Treated surfaces must remain wet for 10 minutes. Fresh solution should be prepared daily or when the use solution becomes visibly dirty.

Disinfection in Hospitals, Nursing Homes and Other Health Care Institutions. For disinfecting floors, walls, countertops, bathing areas, lavatories, bedframes, tables, chairs, garbage pails and other hard non-porous surfaces.

Add 3.5 oz. Multiquat, No. 455 to 4.5 gallons water. Apply to previously cleaned hard surfaces. At this use level, Multiquat, No. 455 is effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Salmonella choleraesuis* in the presence of 5% blood serum when evaluated by the AOAC Use-Dilution test.

Virucidal Performance. At a 3.5 oz./4.5 gallon use level Multiquat, No. 455 was evaluated in the presence of 5% serum and found to be effective against the following viruses: Herpes simplex, Vaccinia, and Influenza A₂ (Hong Kong) on inanimate environmental surfaces.

Disinfection in Institutions, Industry and Schools. Add 2 oz. of Multiquat, No. 455 to 4.5 gallons of water.

Fungicidal Performance. At 0.5 oz. to 2.25 gallons of water use level Multiquat, No. 455 is an effective fungicide against *Trichophyton mentagrophytes* (the athlete's foot fungus) when used on surfaces in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities, utilizing the AOAC Fungicidal Test.

Disinfection of Barber Tools. Practiced barber tools (such as combs, brushes, razors, and scissors) can be disinfected by immersing in a 0.5 oz./gallon solution of Multiquat, No. 455.

Disinfection of Poultry Equipment, Animal Quarters and Kennels. Poultry brooders, watering fountains, feeding equipment and other animal quarters (such as stalls and kennel areas) can be disinfected after thorough cleaning by applying a solution of 2 oz. Multiquat, No. 455 to 4.5 gallons of water. Small utensils should be immersed in this solution. Prior to disinfection, all poultry, other animals and their feeds must be removed from the premises. Then reduce, emptying all troughs, racks and other feeding and watering appliances. Remove all litter and droppings from floors, walls and other surfaces occupied or traversed by poultry or other animals.

After disinfection, ventilate buildings, coops and other closed spaces. Do not house poultry or other animals or employ equipment until treatment has been absorbed set or dried.

All treated equipment that will contact feed or drinking water must be rinsed with potable water before reuse.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

2

-2-

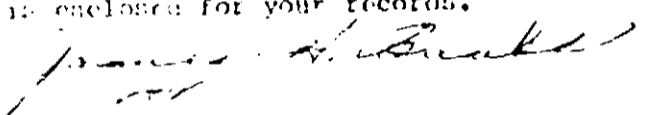
1. The statement "FOR SALE FOR USE AND STORAGE BY MAINTENANCE PERSONNEL ONLY" must be at least the same type size as the "KEEP OUT OF REACH OF CHILDREN" statement (front panel).

2. According to our records, company number 2686 is assigned to Hydrite Chemical Corporation, 1237 W. Bruce Street. If Hydrite Chemical Co., 2655 N. Bayfair Road, is your new company name and address, submit an address correction to our office for company number 2686.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with PIFPA sec. 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.



John H. Lee
Product Manager (31)
Disinfectants Branch
Registration Division (TS-767C)

Enclosures

RD/DH:lee:DCI-4470-PINIG-0406:RIM:Payon:4/9-2013:8/26/84:061.9/7/83

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2686-8 PM 31 1463

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (72-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO. 2686-8	DATE OF ISSUANCE
	TERM OF ISSUANCE 29 AUG 1984	
NAME OF PESTICIDE PRODUCT Muller's No. 55		

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

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Pyrite Chemical Company
 1000 N. Main St.
 P.O. Box 1000
 Piquette, Michigan 48675

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.

Make the following changes to the label for this product:

- Add the phrase "EPA Registration No. 2686-8"
- For the label size submitted, the STORAGE AND DISPOSAL heading and the Child Hazard Warning "KEEP OUT OF REACH OF CHILDREN" must require a 12 point type size minimum and the word "DANGER" (front panel only) would require a 12 point type size minimum.
- Revise the statement (circle left) to read:

causes eye damage and skin irritation.

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ATTACHMENT IS APPLICABLE

James H. Rankin
 for John H. Leo

2686-8 2063

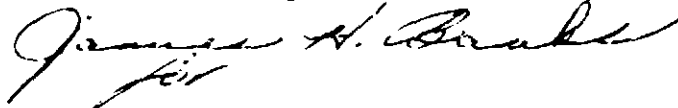
- d. The statement "FOR SALE FOR USE AND STORAGE BY MAINTENANCE PERSONNEL ONLY" must be at least the same type size as the "KEEP OUT OF REACH OF CHILDREN" statement (front panel).

3. According to our records, company number 2686 is assigned to Hydrite Chemical Corporation, 1237 W. Bruce Street. If Hydrite Chemical Co., 2555 N. Mayfair Road, is your new company name and address, submit an address correction to our office for company number 2686.

4. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with PIPRA sec. 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.



John H. Lee
 Product Manager (31)
 Disinfectants Branch
 Registration Division (TS-767C)

Enclosures

RD/DIS:Lee:DCR-44702:WANG-0406K:KIM:Raven:479-2013:8/28/84:Del.9/7/84

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CONCURRENCES							
SYMBOL ▶							
SURNAME ▶							
DATE ▶							

**U.S. PUBLIC HEALTH SERVICE
FOOD SERVICE
SANITIZATION RECOMMENDATIONS**

Cleaning and Sanitizing

Equipment and utensils shall be thoroughly preflushed or prescrubbed and when necessary, presoaked to remove gross food particles and soil.

- 1) Thoroughly wash equipment and utensils in a hot detergent solution
- 2) Rinse utensils and equipment thoroughly with clean water.

Sanitize equipment and utensils by immersion in a 1 oz/4 gallon solution of Multiquat No. 455 (150 ppm active) for at least 60 seconds at a temperature of 75°F. This dilution is equivalent to a solution containing 50 ppm available chlorine.

- 4) For equipment and utensils too large to sanitize by immersion, apply a 1 oz/2 gallon solution of Multiquat No. 455 (300 ppm active) by rinsing, spraying or swabbing until thoroughly wetted.
- 5) Allow sanitized surfaces to drain and air dry. Do not rinse.

Multiquat, No. 455 meets the requirements of 21 CFR 178.1010.

ACCEPTED
with COMMENTS
In EPA Letter Dated:

AUG 29 1984

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

2686-8

Sanitizing of Food Processing Equipment and Other Hard Surfaces in Food Control Locations. For sanitizing food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, milk tops, countertops, refrigerated storage and display equipment and other hard non-porous surfaces. No Potable water rinse is required.

Wash and rinse all articles thoroughly. Then apply a solution of 1 oz. Multiquat, No. 455 in 4 gallons of water (150ppm active). Surfaces should remain wet for at least one minute followed by adequate draining and air drying. Fresh solution should be prepared daily or when use solution becomes visibly dirty. For mechanical application, use solution may not be reused for sanitizing applications.

Apply to milk tops, countertops, refrigerated storage and display equipment and other stationary hard surfaces by cloth or brush or mechanical spray device. No Potable water rinse is required.

Dishes, silverware, glasses, cooking utensils and other similar use food processing equipment can be sanitized by immersion in a 1 oz/4 gallon solution of Multiquat, No. 455. No Potable water rinse is required.

At 1 oz/4 gallons Multiquat, No. 455 fulfills the criteria of Appendix F of the Grade "A" Pasteurized Milk Ordinance 1978 Recommendations of the U.S. Public Health Service in waters up to 800 ppm of hardness calculated as CaCO₃, when evaluated by the AOAC General and Detergent Sanitizer Method against Escherichia coli and Staphylococcus aureus.

The udders, flanks and teats of dairy cows can be sanitized by washing with a solution of 1 oz Multiquat, No. 455 in 4 gallons of warm water. No Potable water rinse is required. Use a wash towel for each cow. Avoid contamination of sanitizing solution by dirt and soil. Do not dip used towel back into sanitizing solution. When solution becomes visibly dirty, discard and provide fresh solution.

Precautionary Statements

Hazards to Humans and domestic animals

DANGER

Keep out of reach of children. Corrosive. Causes eye and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Do not breathe gas, mist. Avoid contamination of food.

STORAGE AND DISPOSAL

- DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL
- OPEN DUMPING IS PROHIBITED
- DO NOT REUSE EMPTY CONTAINER

PESTICIDE DISPOSAL

PESTICIDE SPRAY MIXTURE OR RINSE WATER THAT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS MUST BE DISPOSED OF ACCORDING TO FEDERAL OR APPROVED STATE PROCEDURES UNDER SUBTITLE C OF THE RESOURCE CONSERVATION AND RECOVERY ACT.

CONTAINER DISPOSAL

TRIPLE RINSE (OR EQUIVALENT). THEN OFFER FOR RECYCLING OR RECONDITIONING, OR DISPOSE OF IN A SANITARY LANDFILL, OR BY INCINERATION IF ALLOWED BY STATE AND LOCAL AUTHORITIES.

GENERAL

CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

MULTIQUA

**Disinfectant
Fungicide-Virucide
with Organic
for Hospital,
Industrial, School, Dairy**

Active Ingredients

- Octyl decyl dimethyl am...
- Didecyl dimethyl ammon...
- Diocetyl dimethyl ammon...
- Alkyl (C₁₄, 50%; C₁₂, 40% benzyl ammonium chloride)

Inert Ingredients

KEEP OUT OF REACH

DANGER

Statement of Precautions

In case of contact, immediately wash with water for at least 15 minutes. Flush eyes and wash contaminated clothing.

If swallowed, drink promptly a large quantity of water. Avoid alcohol.

NOTE TO PHYSICIAN: Product may contraindicate the use of gas inhalation, circulatory shock, respiratory distress. Medical attention should be needed.

SEE LEFT PANEL FOR PRECAUTIONARY STATEMENTS

EPA Registration No.

EPA Establishment No.

Net Contents

Manufactured by
HYDRITE CHEMICALS
2655 N. Mayfair Road
**For Sale For Use
By Maintenance**