

Instructions: This is a specimen label. You may use this format in developing your own label. Substitute your product's name every place you see "LONZA FORMULATION Y-59-125". On the center panel place your own company name and address where you see "Lonza Inc. . . . etc." Substitute your EPA File No. for our "6836-71". Also substitute your EPA Establishment No. for our "6836-IL-1".

LONZA FORMULATION Y-59-125 is a heavy-duty disinfectant cleaner with superior cleaning efficiency. It has been formulated to aid in the reduction of cross-contamination in institutions, schools and hospitals. **LONZA FORMULATION Y-59-125** is a one-step disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal, fungicidal, and will inhibit mold and mildew and their odors when used as directed. **LONZA FORMULATION Y-59-125** is an effective one-step sanitizer-cleaner for use on porous and non-porous non-food contact surfaces in waters up to 400 ppm hardness.

Precautionary Statements

Hazards to Humans and domestic animals

DANGER

Keep out of reach of children. Corrosive. Causes severe eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed or absorbed through the skin. 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 THAT CANNOT BE USED OR CHEMICALLY REPROCESSED SHOULD BE DISPOSED OF IN A LANDFILL APPROVED FOR PESTICIDES OR BURIED IN A SAFE PLACE AWAY FROM WATER SUPPLIES

CONTAINER DISPOSAL

TRIPLE RINSE (OR EQUIVALENT) AND DISPOSE IN AN INCINERATOR OR LANDFILL APPROVED FOR PESTICIDE CONTAINERS. OR BURY IN A SAFE PLACE

GENERAL

CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES SUCH AS LIMITED OPEN BURNING

LONZA FORMULATION Y-59-125

**Heavy Duty Disinfectant-Cleaner-Fungicide
Mildewstat-Virucide*-Sanitizer-Deodorizer-
with Organic Soil Tolerance
for Institutional and Hospital Use**

Active Ingredients

Alkyl (C ₁₂ , 50%, C ₁₁ , 40%, C ₁₀ , 10%) dimethyl benzyl ammonium chloride	1.024%
Octyl decyl dimethyl ammonium chloride	0.768%
Dioctyl dimethyl ammonium chloride	0.384%
Didecyl dimethyl ammonium chloride	0.384%

Inert Ingredients

97.440%
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, as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous injection of a short-acting barbiturate drug.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Registration No. 6836-71

EPA Establishment No. 6836-IL-1

Net Contents

MANUFACTURED BY:

LONZA INC., 22-10 Route 208, Fair Lawn, N.J. 07410

Directions for Use

GENERAL CLASSIFICATION

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

LONZA FORMULATION Y-59-125 is a proven "one-step" cleaner-disinfectant-sanitizer-fungicide-mildewstat-virucide in the presence of organic soil. Apply **LONZA FORMULATION Y-59-125** to walls, floors and other hard (inanimate) surfaces such as tables, chairs, countertops, sinks and bedframes with a cloth, mop or mechanical spray. Surface must be sprayed until thoroughly wetted. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or when use solution becomes visibly dirty.

For Schools, Institutional (Non-Medical) & Industrial Use, 2 oz. per gallon use level. The activity of **LONZA FORMULATION Y-59-125** has been evaluated in the presence of 5% serum by the AOAC Use-Dilution method and found to be effective against a broad spectrum of gram positive and gram negative organisms as represented by:

- Serratia marcescens
- Salmonella typhi
- Staphylococcus aureus
- Salmonella choleraesuis
- Escherichia coli
- Streptococcus pyogenes
- Proteus mirabilis
- Klebsiella pneumoniae
- Enterobacter aerogenes
- Salmonella schottmuelleri
- Shigella dysenteriae
- Brevibacterium ammoniagenes

Virucidal Performance: At 2 oz. per gallon use level, **LONZA FORMULATION Y-59-125** was found to be effective against the Influenza A (Brazil) virus

For Hospitals and Nursing Homes, 3 oz. per gallon use level. At this dilution, **LONZA FORMULATION Y-59-125** is effective against *Pseudomonas aeruginosa* as well as the broad spectrum organisms listed. The same AOAC tests used above were used to confirm suitable performance.

AOAC Fungicidal Test. **LONZA FORMULATION Y-59-125** is an effective fungicide against *Trichophyton mentagrophytes* (the athlete's foot fungus) when used at 2 oz. per gallon in areas such as locker rooms, dressing rooms, shower and bath areas, exercise facilities, etc.

Mildewstatic Performance. At 2 oz./gallon, **LONZA FORMULATION Y-59-125** will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, non-porous surfaces (as indicated above). Allow to dry on surface and repeat weekly or when mildew growth returns.

Sanitizing-Non-Food Contact Surfaces. At 3/4 oz. gallon use-level, 30 second contact time, **LONZA FORMULATION Y-59-125** is an effective sanitizer in waters of up to 400 ppm hardness against *Staphylococcus aureus* and *Klebsiella pneumoniae* for both porous and non-porous surfaces. For sanitizing non-food contact surfaces, **NO POTABLE WATER RINSE IS REQUIRED**

ACCEPTED
JAN 26 1981
The Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is hereby certified for the pesticide listed under Reg. No. 6836-71



DIRECTIONS FOR USE
General Classification

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

Onyx CD 4.5 detergent/disinfectant has been designed specifically for hospitals, nursing homes, schools, food processing plants, food service establishments and other institutions where housekeeping is of prime importance.

DISINFECTION- To disinfect hard inanimate surfaces (such as walls, floors, table tops), add 2 ounces CD 4.5 detergent/disinfectant per gallon of water. Apply solution with mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes and then let air dry.

To disinfect toilet bowls, flush toilet, add 2 ounces CD 4.5 detergent/disinfectant directly to the bowl water. Swab the bowl completely using a scrub brush or toilet mop, making sure to get under the rim. Let stand for 10 minutes and flush.

For heavily soiled areas, a pre-cleaning step is required and recommended. Prepare a fresh solution for each use.

MILDEWSTAT- To control mold and mildew on pre-cleaned, hard non-porous surfaces (such as floors, walls, table tops) add 2 ounces CD 4.5 per gallon of water. Apply solution with a cloth, mop or sponge making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth reappears.

SANITIZATION- To sanitize previously cleaned and rinsed non-porous food contact surfaces, prepare 200ppm active quaternary CD 4.5 solution by adding 2 ounces CD 4.5 to 3 1/2 gallons of water.

To sanitize immobile items (such as tanks, chopping blocks, counter tops), flood the area with 200ppm CD 4.5 solution or apply with a cloth or sponge, making sure to wet all surfaces completely for at least 60 seconds. Rinse with potable water. Let air dry. Prepare a fresh solution for each use.

To sanitize mobile items (such as drinking glasses, eating utensils), immerse in 200ppm CD 4.5 solution for at least 60 seconds making sure to immerse completely. Remove and rinse with potable water. Let air dry. Prepare a fresh solution daily or more frequently as soil is apparent.

PRECAUTIONARY STATEMENTS
Hazard to Human and Domestic Animals
DANGER

Keep Out of Reach of Children. Causes severe eye and skin damage. Do not get in eyes, skin or on clothing. Harmful if swallowed. Wear goggles or face shield and rubber gloves when handling. Avoid contamination of food. Remove and wash contaminated clothing.

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 all contaminated clothing before reuse. If swallowed, drink milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician.

NOTE TO PHYSICIAN

Probable mucosal laceration may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

ONYX



CD 4.5 D & F

detergent/disinfectant

Cleaner	Disinfectant
Detergent	Fungicide (against
Deodorizer	Pathogenic fungi)
Sanitizer	Virucide*
Mildewstat (on hard inanimate surfaces)	

ACTIVE INGREDIENTS:

n-Alkyl (60% C₁₄, 30% C₁₆, 5% C₁₂, 5% C₁₈) dimethyl benzyl ammonium chlorides.....2.25%
n-Alkyl (68% C₁₂, 32% C₁₄) dimethyl ethylbenzyl ammonium chlorides.....2.25%
INERT INGREDIENTS:.....95.50%

100.00%

ACCEPTED

JAN 26 1981

Under the Federal Insecticide, Fungicide, and Rodenticide Act, this product is registered under EPA Reg. No. 1839-102

KEEP OUT OF REACH OF CHILDREN

DANGER

See side panels for additional precautionary and first aid statements.

EPA REG. NO. 1839-102
EPA EST. NO. 171-01-01

38

Onyx CD 4.5 is a complete effective cleaning, CD 4.5 detergent/disinfectant for hospitals, nursing homes, institutions where the hazard of cross-

contamination is a problem. CD 4.5 when diluted is an effective disinfectant and meets all requirements. Onyx CD 4.5 is formulated for use on walls, floors, stairs and bed frames. For use in health care facilities and for both general cleaning.

In addition, Onyx CD 4.5 is hard to keep fresh smelling. It is garbage bins and canisters prone to odors caused by

DISINFECTION - At 200ppm active quaternary CD 4.5 is an effective disinfectant against Salmonella choleraesuis.

At this level the product is effective against fungi, Trichophyton mentagrophytes.

Virucidal* Activity: Onyx CD 4.5 is effective on hard surfaces at 200ppm active quaternary CD 4.5 solution. It has virucidal* activity against the common flu virus, herpes blisters and mononucleosis, upper respiratory infections and the pox virus group).

Efficacy tests have demonstrated activity as a bactericide, fungicide, and 5% blood serum).

Mold and Mildewstat - Onyx CD 4.5 prevents mold and mildew and the odors they cause.

Sanitization- When used on food contact equipment or food containers, it is safe. **POTABLE WATER RINSE**

Onyx CD 4.5 is an effective cleanser with a hardness (CaCO₃).

PESTICIDE DISPOSAL - This product should be disposed of by incineration or buried in a safe place.
CONTAINER DISPOSAL - This product should be disposed of by incineration or buried in a safe place.

ONYX



CD 4.5 D & F

detergent/disinfectant

Cleaner	Disinfectant
Detergent	Fungicide (against
Deodorizer	Pathogenic fungi)
Sanitizer	Virucide*
Mildewstat (on hard inanimate surfaces)	

ACTIVE INGREDIENTS:
 n-Alkyl (60% C₁₂, 30% C₁₆, 5% C₁₂, 5% C₁₈) dimethyl benzyl ammonium chlorides.....2.25
 n-Alkyl (68% C₁₂, 32% C₁₄) dimethyl ethylbenzyl ammonium chlorides.....2.25
INERT INGREDIENTS:.....95.50

ACCEPTED
 JAN 26 1981
 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the products registered under EPA Reg No. 839-102
KEEP OUT OF REACH OF CHILDREN
DANGER

See side panels for additional precautionary and first aid statements.

EPA REG. NO. 1939-102
EPA REG. NO. 1939-82-01

38

Onyx CD 4.5 is a concentrated detergent/disinfectant which provides effective cleaning, deodorizing, disinfection, and sanitization. Onyx CD 4.5 detergent/disinfectant has been designed specifically for hospitals, nursing homes, schools, food processing plants and other institutions where housekeeping is of prime importance in controlling the hazard of cross contamination.

CD 4.5 when diluted at the rate of 2 ounces per gallon of water is an effective disinfectant against the organisms *Pseudomonas aeruginosa* and meets all requirements for hospital use. When used as directed, Onyx CD 4.5 is formulated to disinfect inanimate hard surfaces such as walls, floors, sink tops, toilet bowls, tables, chairs, telephones and bed frames. For larger areas such as operating rooms, patient care facilities and restrooms, the product is designed to provide both general cleaning and disinfecting.

In addition, Onyx CD 4.5 deodorizes those areas which generally are hard to keep fresh smelling, such as garbage storage areas, empty garbage bins and cans, toilet bowls and any other areas which are prone to odors cause by microorganisms.

DISINFECTION - At 2 ounces per gallon dilution, Onyx CD 4.5 exhibits effective disinfectant activity against the organisms: *Salmonella choleraesuis* and *Staphylococcus aureus*.

At this level the product is also fungicidal against the Pathogenic fungi, *Trichophyton mentagrophytes*.

Virucidal* Activity: The product when used on environmental inanimate hard surfaces at 2 ounces per gallon of water exhibits effective virucidal* activity against Influenza A₂ - Asian (representative of the common flu virus), Herpes simplex (causative agent of fever blisters and mononucleosis), Adeno virus type 2 (causative agent of upper respiratory infections), and Vaccinia virus (representative of the pox virus group).

Efficacy tests have demonstrated that CD 4.5 is an effective bactericide, fungicide, and virucide* in the presence of organic soil (5% blood serum).

Mold and Mildewstat - Onyx CD 4.5 prevents and controls mold and mildew and the odors they cause on hard non-porous inanimate surfaces.

Sanitization - When used for sanitization of previously cleaned food equipment or food contact items limit active quaternaries to 200ppm. **A POTABLE WATER RINSE IS REQUIRED.**

CD 4.5 is an effective sanitizer when diluted in water up to 500ppm hardness (CaCO₃).

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 - Pesticides that cannot be used or chemically re-processed should be disposed of in a landfill approved for pesticides or buried in a safe place.

CONTAINER DISPOSAL - Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

39

net in a manner

ed specifically
sing plants, food
re housekeeping is

(such as walls,
/disinfectant per
ponge or mechanical
w to remain wet for

nces CD 4.5
Swab the bowl
ing sure to get

required and

ned, hard
tops) add 2 ounces
cloth, mop or
Let air dry.
ication at weekly

nsed non-porous
ternary CD 4.5
of water.

ng blocks, counter
or apply with a
completely for at
air dry. Prepare

, eating utensils),
seconds making sure
table water. Let air
scently as soil is

and skin damage. Do
swallowed. Wear
gloving. Avoid
clothing.

with plenty of
physician. Remove
if swallowed, drink
not available.

of gastric lavage
pression and

RECEIVED
 ALGAE ACIDE
 1/5/39-52

DIRECTIONS FOR USE
5% BTC 2125M

It is a violation of Federal law to sell or distribute in a manner inconsistent with its labeling. Initial Dose: Add 1 gallon of 5% BTC 2125M to 25,000 gallons of water. Maintenance Dose: Add 1 quart of 5% BTC 2125M to 25,000 gallons of pool water. Initial dose is used when filling new pools at the beginning of swimming season. If pool has no algae growth, treat with initial dose. Vacuum pool and brush algae to remove algae debris. If algae still present, repeat the treatment or reappear, repeat the treatment as often as necessary. When pool is free of visible algae, use recommended maintenance dose. Maintenance dose should be added at regular intervals. If high temperatures prevail, repeat dose. After heavy use, add maintenance dose to reestablish. If make-up water is added at the rate of more than 100 per week of pool capacity, add 1 quart of 5% BTC 2125M for each 5,000 gallons of fresh make-up water added per week.



**5% BTC 2125M SWIMMING POOL
 ALGAECIDE**

When swimming season is over, add 1 gallon of 5% BTC 2125M to 25,000 gallons of water in treated water left in pool. This dose helps provide complete control of algae growth during the winter months. This treatment will also help the surviving algae die before it is returned to use the following season. When 5% BTC 2125M is used as directed, it will kill Chlorophyta (green), Phormidium lundstrandi (black blue), Pseudomonas retzii (Square D algae), Lyngbya leuckersii (blue-green) and other swimming pool algae.

5% BTC 2125M is compatible with most commonly used swimming pool chemicals, but should not be mixed with soap or other water-treating chemicals. 5% BTC 2125M works best when added by itself directly to pool water. 5% BTC 2125M at use dilution is non-corrosive to inanimate surfaces.

...the following information is for informational purposes only and should not be construed as a recommendation or warranty of any kind. The user is advised to read the entire label and to use the product in accordance with the directions thereon. The user is further advised that the use of this product may require the use of protective clothing and equipment. The user is also advised that the use of this product may require the use of other chemicals and that the user should consult the appropriate authorities for information regarding the safe handling and use of these chemicals.

ENVIRONMENTAL PRECAUTIONS
 Do not use this product in or near water bodies. Do not use this product in or near crops, gardens, or lawns. Do not use this product in or near children's play areas. Do not use this product in or near swimming pools.

STORAGE AND DISPOSAL
 Store in original container in a cool, dry place. Do not use if container is damaged. Do not use if contents are solid, liquid, or gaseous. Do not use if contents are leaking. Do not use if contents are contaminated. Do not use if contents are expired.

CONTAINER DISPOSAL-Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

**KEEP OUT OF REACH OF CHILDREN
 DANGER**

See side panel for additional precautionary and practical treatment statements.

onyx chemical company
 MILLMASTER ONYX GROUP
 190 WARREN STREET
 NEW JERSEY CITY, N. J. 07302