



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

April 16, 2019

Ye Liu  
Regulatory Specialist  
Stepan Company  
22 West Frontage Road  
Northfield, IL 60093

Subject: Label Amendment – Secondary container precautionary statement  
Product Name: Liquid-Pak Neutral Disinfectant Cleaner  
EPA Registration Number: 1839-176  
Application Date: November 01, 2018  
Decision Number: 545766

Dear Ms. Liu:

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

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with FIFRA section 6. If you have any questions, please contact Mohammad Alavi by phone at (703) 347-0522, or via email at [Alavi.mohammad@epa.gov](mailto:Alavi.mohammad@epa.gov).

Sincerely,



Eric Miederhoff  
Product Manager 31  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure

# Liquid-Pak

## Neutral Disinfectant Cleaner

**FRONT PANEL**

**ACTIVE INGREDIENTS**

Octyl decyl dimethyl ammonium chloride .....	15.24%
Dioctyl dimethyl ammonium chloride .....	7.62%
Didecyl dimethyl ammonium chloride .....	7.62%
Alkyl (50% C <sub>14</sub> , 40% C <sub>12</sub> , 10% C <sub>16</sub> ) dimethyl benzyl ammonium chloride .....	20.32%
<b>INERT INGREDIENTS</b> .....	<b>49.20%</b>
<b>Total</b>	<b>100.00%</b>

**NET CONTENTS:** Water Soluble Packets, each containing 0.8178 ounce of product  
 Water Soluble Packets, each containing 0.1023 ounce of product

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

<b>FIRST AID</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>If in eyes:</b>	<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>
<b>If on skin or clothing:</b>	<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>
<b>If swallowed:</b>	<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>
<b>If inhaled:</b>	<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>
(OPTIONAL) You may contact (xxx)xxx-xxxx for emergency medical treatment information.	

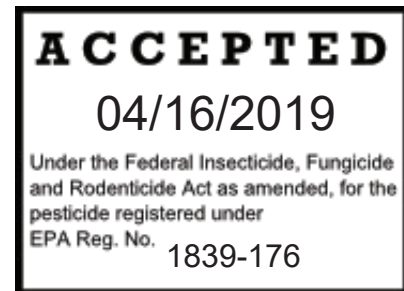
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

See [(side)(back) panel(s)](booklet) for additional precautionary statements (directions for use).

**FRONT, BACK, OR SIDE PANEL**

EPA REG. NO. 1839-176  
 EPA EST. NO. [(1839-IL-01)(xxx-xx-xxx)]

STEPAN COMPANY  
 22 W. Frontage Rd.  
 Northfield, IL 60093



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## **MARKETING CLAIMS**

### **General**

- CLEANER
  - DISINFECTANT
  - VIRUCIDE
  - DEODORIZER
  - DETERGENT
  - FUNGICIDE
  - MILDEWSTAT
- This product is formulated to a neutral pH and will not dull high-gloss floor finishes with repeated use.
  - This product is a water-soluble packet. Follow label dilution instructions by dropping packet directly into water. Do not remove packets before use. Store in cool dry place. Do not handle packets with wet hands.
  - This product is for use (in)(on) {insert use site or surface from page 5-6}.

### **DISINFECTION CLAIMS**

- Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu)
- This product is a phosphate-free formulation designed to provide effective cleaning, deodorizing, and disinfection for: hospitals, nursing homes, hotels, schools, and restaurants where housekeeping is of prime importance in controlling cross-contamination from treated surfaces.
- This product, when used as directed, is formulated to disinfect hard non-porous inanimate environmental surfaces such as floors, walls, metal surfaces, stainless steel surfaces, glazed porcelain, glazed ceramic tile, plastic surfaces, bathrooms, shower stalls, bathtubs, and cabinets. For larger areas such as operating rooms and patient care facilities, this product is designed to provide both general cleaning and disinfecting.
- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by Influenza A virus. This product is a broad-spectrum hard surface disinfectant that has been shown to be effective against (Influenza A virus tested and listed on the label) and is expected to inactivate all Influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- This product has demonstrated effectiveness against Influenza A virus and is expected to inactivate all Influenza A viruses including Pandemic 2009 H1N1 Influenza A virus.
- This product has demonstrated effectiveness against (Influenza A virus tested and listed on the label) and is expected to inactivate all Influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu).
- Kills Pandemic 2009 H1N1 Influenza A virus.
- Kills 99.9% of bacteria in (just) (10)(ten) minutes\*\*
- (Kills)(effective against) {insert pathogen from page 6}
- Kills 99.9% of germs
- Efficacy tests have demonstrated that this product is an effective bactericide and virucide in water up to 400ppm hardness (as CaCO<sub>3</sub>) in the presence of organic soil (5% blood serum).

### **FUNGI / MOLD / MILDEW CLAIMS**

- (Controls)(inhibits)(prevents)(stops) the growth of mold and mildew
- Leaves {insert use site or surface from page 5} (smelling) clean and fresh
- Kills 99.9% of (fungus)(fungi) in (just) 10 minutes#
- Kills 99.9% of (fungus)(fungi) #
- Kills (fungus)(fungi) #
- Kills athlete's foot fungus

- Kills fungus causing (ringworm)(ringworm of the foot)
- Kills Trichophyton mentagrophytes (the cause of (ringworm)(ringworm of the foot))

## **CLAIM QUALIFIERS**

<sup>1</sup> <For labels that list medical premises and metal and/or stainless steel surfaces, one of the following statements must be used>

This product is not to be used as a terminal sterilant/high-level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body.

or

This product is not for use on critical or semi-critical medical device surfaces.

<sup>2</sup> Non-food contact surfaces only.

\*\* This product is an effective bactericide against Staphylococcus aureus (ATCC 6538), Pseudomonas aeruginosa (ATCC 15442), (and) Salmonella enterica (ATCC 10708), {and insert bacteria from the disinfection section on page 6} on hard, non-porous, non-food contact surfaces in 10 minutes.

#This product is an effective fungicide against Trichophyton mentagrophytes in 10 minutes on hard, non-porous, non-food contact surfaces.

## **DEODORIZING & CLEANING CLAIMS**

- This product deodorizes those areas which generally are hard to keep fresh smelling, such as garbage storage areas, empty garbage bins and cans, toilet bowls, and other areas which are prone to odors caused by microorganisms.
- Multipurpose Cleaner
- Deodorizer
- Deodorizing formula
- Eliminates odors
- This product eliminates odors leaving surfaces smelling clean and fresh.
- Use where odors are a problem.
- Use (this product) to (clean)(deodorize) {inset surface or use site from page 5-6}

## **PRECAUTIONARY STATEMENTS**

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

KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes skin burns and irreversible eye damage. May be fatal if absorbed through skin or swallowed. Do not get in eyes, on skin or on clothing. Wear protective goggles or face shield, protective clothing and rubber (or chemical resistant) gloves. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

<Required for product supplied in containers of 5 gallons or greater>

### **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.

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Appropriate metric or imperial unit may be added as optional, supplemental information.

## STORAGE AND DISPOSAL

**DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.**

**PESTICIDE STORAGE** - Store in a dry place no lower in temperature than 50°F or higher than 120°F.

**CONTAINER STORAGE/DISPOSAL:** Store in an area inaccessible to children. Container: Tightly close lid between uses. Non-refillable container. Do not reuse or refill this container. Offer empty container for recycling if available or discard in trash.

**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 label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## DIRECTIONS FOR USE

### DIRECTIONS FOR USE

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

**GENERAL CLEANING & DEODORIZATION** – Apply product to soiled area with a mop, cloth, sponge, or hand pump trigger sprayer. Product must be diluted as indicated in the DISINFECTION section. Thoroughly wet soiled surface and scrub as necessary. Rinse surface with potable water and wipe dry with a dry paper towel or lint-free cloth.

**DISINFECTION** - To disinfect inanimate, hard, non-porous surfaces use the appropriate size premeasured packet.

<u>Packet Size</u>	<u>Net Weight</u>	<u>Number of Packets</u>	<u>Dilution</u>	<u>PPM</u>
Small	0.1023 ounce	1	26 ounces	1909
Small	0.1023 ounce	1	Quart	1552
Large	0.8178 ounce	1	2 gallons	1552
Large	1.64 ounces	2	4 gallons	1555

Stir gently to form a uniform solution. Apply solution with a mop, cloth, sponge, or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid.

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

*<Required if making a HIV-1, HBV, and/or HCV claim on product label>*

**KILLS HIV-1, HBV and HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings (Hospitals, Nursing Homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B virus (HBV) and Hepatitis C virus (HCV).

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HBV and HCV OF SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.**

**PERSONAL PROTECTION:** When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, or eye coverings.

**CLEANING PROCEDURES:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of this product.

**CONTACT TIME:** Allow surface to remain wet for 10 minutes.

**DISPOSAL OF INFECTIOUS MATERIALS:** Blood and other body fluids should be autoclaved and disposed of according to local regulations for infectious waste disposal.

**BACTERICIDAL ACTIVITY** – When diluted as indicated in the DISINFECTION section, this product demonstrates effective disinfectant activity against the organisms: Pseudomonas aeruginosa, Salmonella choleraesuis, Staphylococcus aureus, {insert additional bacteria from table on page 6}.

**\* VIRUCIDAL ACTIVITY** - This product when used on environmental, inanimate hard non-porous surfaces add one large (0.8178 ounce) packet per 2 gallons of water or one small packet (0.1023 ounce) per quart of water exhibits effective virucidal activity against {insert viruses from table on page 6}.

**FUNGICIDAL ACTIVITY** - When diluted at 0.8178 oz per 2 gallons of water (or equivalent dilution), this product is fungicidal against the pathogenic fungi, Trichophyton mentagrophytes (ATCC 9533) (Athlete’s Foot Fungus) (a cause of ringworm) (a cause of ringworm of the foot). Apply solution with a cloth, sponge or hand pump trigger sprayer to hard, non-porous surfaces. Allow the surface to remain wet for 10 minutes, then remove excess liquid. Diluted product should be applied daily or more frequently with heavy facility use.

**MILDEWSTAT** - When diluted as indicated in the DISINFECTION section, this product demonstrates effective disinfectant activity against Aspergillus niger (ATCC 6275). To control mold and mildew (Aspergillus niger (ATCC 6275)) on pre-cleaned, hard, non-porous surfaces, apply solution with a cloth, mop, sponge, hand pump trigger sprayer or low pressure coarse sprayer, 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 appears.

**SITE AND APPLICATION SPECIFIC DIRECTIONS FOR USE**

<Choose one of the following toilet bowl paragraphs>

**TO DISINFECT TOILET BOWLS:** Remove gross filth or soils from surfaces with bowl brush prior to disinfection. Add 3 small, premeasured packets (0.1023 ounce each) per 3 quarts (96 fluid ounces) of bowl water. Brush or 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.

**TO DISINFECT TOILET BOWLS:** Remove gross filth or soils from surfaces with bowl brush prior to disinfection. Remove or expel over the inner trap the residual bowl water. Make a dilute solution by dissolving (three (3) (0.1023 ounce each) packets in three (3) quarts)(one (1) packet in one (1) quart) of water. If a larger quantity is desired, refer to dilution chart above. Apply use solution with a mop, cloth, sponge, or hand pump trigger sprayer, so as to wet all surfaces thoroughly. Allow to **remain** wet for 10 minutes, then remove excess liquid. Brush or 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.

**TO DISINFECT RESTAURANT FOOD CONTACT SURFACES:** countertops, appliances, tables, add the appropriate size premeasured packet as indicated in the DISINFECTION section. Apply solution with a cloth, sponge, or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow the surface to remain wet for 10 minutes, then remove excess liquid and rinse the surface with potable water. This product cannot be used to clean the following food contact surfaces: utensils, glassware and dishes.

**SURFACES & USE SITES**

<Product label may list surfaces or sites and/or a graphic depicting a hard, non-porous surface from the chart below>

**Hard, non-porous, inanimate surfaces: Non-food contact surfaces only**

Baked enamel surfaces	Floors	Stainless steel surfaces <sup>1</sup>
Bathrooms	Glass	Shower stalls
Bathtubs	Glazed (ceramic) tile	Sinks
Brass <sup>1</sup>	Glazed porcelain	Stainless steel
Cabinets	Laminated surfaces	Toilets
Copper <sup>1</sup>	Metal (surfaces) <sup>1</sup>	Urinals
Chrome	Plastic (surfaces) <sup>2</sup>	Walls
Fixtures	Restroom surfaces	

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**Use Sites: Non-food contact surfaces only**

(Athletic)(recreational) facilities	Lodging establishments	Public restrooms
Animal housing facilities	Manufacturing facilities	Public restrooms
Animal life science laboratories	Nursing homes <sup>1</sup>	Retail businesses
Homes <sup>2</sup>	Office buildings	Schools
Hospitals <sup>1</sup>	Operating rooms <sup>1</sup>	Shower rooms
ICU areas <sup>1</sup>	Patient rooms <sup>1</sup>	Transportation terminals
Locker rooms	Pet shops	Veterinary clinics

**MICRO-ORGANISMS**

This product has been tested and found to be efficacious against the following micro-organisms on hard, non-porous surfaces when used in accordance with the directions for use:

<b>BACTERICIDAL ACTIVITY (BACTERIA):</b>		<b>Contact Time</b>
<i>Pseudomonas aeruginosa</i>	(ATCC 15442)	10 minutes
<i>Staphylococcus aureus</i>	(ATCC 6538)	10 minutes
<i>Salmonella choleraesuis</i>	(ATCC 10708)	10 minutes
Methicilin resistant <i>Staphylococcus aureus</i> (MRSA)	(ATCC 33592)	10 minutes
Vancomycin intermediate resistant <i>Staphylococcus aureus</i> (VISA)	(ATCC HIP-5836)	10 minutes
Vancomycin resistant <i>Enterococcus faecalis</i> (VRE)	(ATCC 51575)	10 minutes
<b>FUNGICIDAL ACTIVITY (MOLD)(MILDEW)(FUNGUS)(FUNGI):</b>		
Trichophyton mentagrophytes	(ATCC 9533)	10 minutes
<b>MILDEWSTATIC (MILDEW) ACTIVITY</b>		
Aspergillus niger	(ATCC 6725)	

<b>*VIRUCIDAL ACTIVITY (VIRUSES):</b>		<b>Contact Time</b>
HIV-1	Strain HTLV-IIIB	10 minutes
Hepatitis B Virus (HBV)		10 minutes
Hepatitis C Virus (HCV)		10 minutes
SARS associated Coronavirus	(ZeptoMetrix)	10 minutes
Herpes Simplex Type 1 (causative agent of fever blisters)	(ATCC VR-260)	10 minutes
Herpes Simplex Type 2 (genital)	(ATCC VR-734)	10 minutes
Influenza A <sub>2</sub> /Hong Kong		10 minutes

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**SECONDARY / SERVICE CONTAINER LABELING**

*(Note to Reviewer: The following is to be used as a label for a separate, secondary container for use/storage under Direction For Use Disinfection section. Not for use with alternate dilutions)  
When this product is diluted in accordance with the directions on this label, the dilution container must bear the following statements:*

**LIQUID-PAK  
NEUTRAL DISINFECTANT CLEANER / Product Brand Name**

E.P.A. Reg. No. 1839-176  
E.P.A. Est. No. 1839-IL-1 (xxx-xx-xxx)

**ACTIVE INGREDIENTS**

Octyl decyl dimethyl ammonium chloride.....	15.24%
Dioctyl dimethyl ammonium chloride.....	7.62%
Didecyl dimethyl ammonium chloride .....	7.62%
Alkyl (50% C <sub>14</sub> , 40% C <sub>12</sub> , 10% C <sub>16</sub> ) dimethyl benzyl ammonium chloride .....	20.32%

<b>INERT INGREDIENTS</b> .....	<u>49.20%</u>
<b>Total</b>	<b>100.00%</b>

*The product in this container is diluted as directed on the pesticide product label. Follow the directions for use on the pesticide label when applying this product. Further sale or distribution of this product is strictly prohibited.*

**KEEP OUT OF REACH OF CHILDREN.** Causes moderate eye irritation. Avoid contact with eyes and clothing. Wear protective eye wear (such as 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 and wash contaminated clothing before reuse.

**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. Call a poison control center or doctor for treatment advice.

**STEPAN COMPANY**  
22 W. Frontage Rd.  
Northfield, IL 60093

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# Water Soluble Packet Label

## LIQUID-PAK NEUTRAL DISINFECTANT CLEANER

### ACTIVE INGREDIENTS

Octyl decyl dimethyl ammonium chloride.....	15.24%
Diocetyl dimethyl ammonium chloride.....	7.62%
Didecyl dimethyl ammonium chloride .....	7.62%
Alkyl (50% C <sub>14</sub> , 40% C <sub>12</sub> , 10% C <sub>16</sub> ) dimethyl benzyl ammonium chloride .....	20.32%
<b>INERT INGREDIENTS.....</b>	<b>49.20%</b>

**Total** 100.00%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER CORROSIVE**

See master label for additional precautionary statements  
and use directions.

EPA REG. NO. 1839-176  
EPA EST. NO. 1839-IL-01

STEPAN COMPANY  
22 West Frontage Road • Northfield, IL 60093

Add one packet in **1 quart** of water.  
NET WEIGHT CONTENTS: **0.1023 ounce**

***Alternate Water Soluble Packet Label:  
(for small 1" x 1" packets)***

**LIQUID-PAK  
NEUTRAL DISINFECTANT CLEANER**

Quaternary Ammonium Chlorides

**KEEP OUT OF REACH OF CHILDREN**

**DANGER CORROSIVE**

See outer container for  
Precautions and Directions.

EPA REG. NO. 1839-176