

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SEP 5 1997

Alcide Corporation
8561 154th Avenue, NE
Redmond, Washington 98052

Attention: David R. Joy
Regulatory Counsel

Subject: LD10:1:1 Disinfectant
EPA Registration Number 45631-15
Your Amendment Dated August 4, 1997

This is in response to your amendment on the above product to revise the product labeling by removing reference to technical bulletin and modifying the directions for use.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comment listed below.

Place the heading "Precautionary Statements" above the phrase "Hazards to Humans" and revise "Hazards to Humans" to read: "Hazards to Humans and Domestic Animals".

A stamped copy is enclosed for your records. Submit one copy of the final printed label before you release the product for shipment bearing the amended label.

If you have any questions concerning this letter, please contact Delores Williams at (703) 308-6372.

Sincerely,

Robert S. Brennis
Acting Product Manager (32)
Regulatory Management Branch II
Antimicrobials Division (7504C)

CONCURRENCES

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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MASTER LABEL FOR LD 10:1:1 DISINFECTANT

FRONT PANEL

Alcide® Brand

LD® 10:1:1

DISINFECTANT

FOR USE WITH LD® ACTIVATOR 10:1:1 CONCENTRATE

LD Disinfectant kills bacteria, fungi, and viruses** on environmental surfaces. LD is effective against *Psuedomonas aeruginosa*, *Staphylococcus aureus*, *Salmonella choleraesuis* and *Mycobacterium tuberculosis* in organic soil in 3 minutes. Kills human immunodeficiency virus Type-1 (HIV-1) (AIDS virus) on pre-cleaned environmental surfaces/objects previously soiled with Blood/Bodily fluids. SEE DIRECTIONS FOR USE.

*Kills Influenza Virus Type A2 (Hong Kong); Herpes Simplex Virus Types 1 and 2; Poliovirus Type 1; Coxsackievirus; Adenovirus Type 2; Echovirus Type 2; Vaccinia Virus and Vesicular Stomatitis Virus (VSV).

+Currently, there is no established test for hepatitis viruses.

Active ingredients: Sodium Chlorite	3.03 %
Inert Ingredients:	96.97 %
TOTAL:	100.00 %

Keep Out of Reach of Children
CAUTION: See Side Panel For
Additional Precautionary Statements
Contents 5 Gallons (18.925 Liters)

EXPIRES
with COMMENTS
in This Label Dated:

SEP 5 1997

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

45631-15

SIDE PANEL

Lot No.:
Exp. Date:

HAZARDS TO HUMANS:

CAUTION

Harmful if swallowed, inhaled, or absorbed through the skin. Causes eye irritation. Avoid breathing vapors. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

FIRST AID

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.
IF IN EYES: Flush with plenty of water. Call a physician if irritation persists.

U.S. Patent No. Re. 31,779
Other Patents Pending
Foreign Patents

EPA Reg. No. 45631-15
EPA Est. No. 035-347-CA-001

Manufactured For:
Alcide Corporation
Redmond, Washington 98052

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BACK PANEL

LD® Disinfectant is recommended for use in schools, hospitals, medical, industrial and institutional facilities to eliminate human health-related microorganisms on hard, non-porous environmental surfaces.

DIRECTIONS FOR USE

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

USE IN A WELL VENTILATED AREA. AVOID BREATHING FUMES.

Base Concentrate must be diluted with water prior to adding Activator Concentrate (see "Preparation").

Improper preparation can result in excessive generation of chlorine fumes.

PREPARATION:

1. Measure 1 part LD Base Concentrate (Part 1) into a clean, empty, non-metallic container.
2. Add 10 parts cool tap water (at or below 25° C).
3. Add 1 part LD Activator Concentrate (Part 2) and stir.

The final solution should appear colorless or pale yellow. Product performance is not affected by water hardness up to 400 ppm (calculated as CaCO₃); however, variations in local water supply may result in a darker color and and/or stronger odor. Deionized or distilled water may be substituted to minimize these effects.

Discard used solution after each day's use. Although efficacy at a 30 second contact time has been shown against HIV-1, this time would not be sufficient for other organisms. LD solution will inactivate bacteria, viruses, pathogenic fungi and M. tuberculosis in 3 minutes at 20°C.

Moderate amounts of organic load, such as soil, will not lower the efficacy of LD solutions. To ensure best results, surfaces should be rinsed free of heavy soil and gross debris. Hollow objects must be flushed and filled with disinfectant. User judgement and standard practice may require rinsing with sterile water prior to drying.

Soaking is the best method of application. However, the solution may be sprayed or wiped on by any convenient means (mop, cloth, sponge, etc.). The surface should be thoroughly wet with solution. To minimize potential for oxidation or corrosion, a contact time of 3 minutes on metal surfaces or equipment should not be exceeded.

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATING SURFACES AND OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS POTENTIALLY CONTAINING HUMAN IMMUNO-DEFICIENCY VIRUS (AIDS VIRUS)

- Wear protective barriers such as disposable latex gloves, gowns, masks, and eye coverings when handling items soiled with blood or body fluids.
- Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of the LD disinfectant.
- Blood, other body fluids, and contaminated cleaning materials should be autoclaved and disposed of according to local regulations for infectious waste disposal.

NOTE: LD disinfectant may be safely used on most plastics, glazed ceramic and glass. Never soak items in metal vessels. Prolonged or repeated exposure will oxidize metals including aluminum and stainless steel. Do not use on copper, brass or bronze. Do not apply to surfaces with residues from bleach, strong acids or other chemicals without first rinsing surface thoroughly with water.

STORAGE AND DISPOSAL

Store unmixed concentrates in a cool, dark, dry place in the original containers. Always replace covers. Keep upright. Rinse mixing container after use. Wash empty concentrate containers thoroughly with water and offer for recycling or discard in trash.

Do not reuse containers. Do not contaminate water, food or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Prepared LD solution should be stored in a cool, dark, dry place.

See Activator back panel for Warranty and Disclaimer information.

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**[LABEL STATEMENTS FOR ALTERNATE II USE PATTERN
AS AIR CONDITIONING DISINFECTANT]**

FRONT PANEL

FOR USE BY PROFESSIONALS IN DISINFECTING AIR CONDITIONING SYSTEMS

[LD® 10:1:1] DISINFECTANT is recommended for use by professionals for eliminating odor-causing microorganisms in air conditioning systems

BACK PANEL

DIRECTIONS FOR USE [PART B LABEL]

For use with [LD 10:1:1] Disinfectant Part A. Follow directions for mixing, use, storage and disposal on the [LD 10:1:1] Disinfectant Part A label. Use only according to label directions.

DIRECTIONS FOR USE [PART A LABEL]

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For use with [LD® 10:1:1] Disinfectant Part B.

To prepare for use, add total contents of [LD® 10:1:1] Disinfectant Part B to this container of [LD® 10:1:1] Disinfectant Part A. Replace cap and gently invert container once or twice to mix contents. To apply the mixture, refer to the appropriate service bulletin.

STORAGE AND DISPOSAL

Store in a cool, dry place in the original containers. Always replace covers. Keep upright. Wash empty containers thoroughly with water and discard in a safe place. Do not reuse empty containers. Do not contaminate water, food or feed by storage or disposal.

[SEPARATE SHEET]

**SERVICE/TECHNICAL BULLETIN FOR USE OF [LD 10:1:1 DISINFECTANT]
ON AUTOMOBILE AIR CONDITIONERS**

[LD® 10:1:1] AIR CONDITIONING SYSTEM DISINFECTANT PART B IS FOR USE WITH [LD 10:1:1] AIR CONDITIONING SYSTEM DISINFECTANT PART A.

[LD® 10:1:1] Air Conditioning System Disinfectant is recommended for use by professionals in disinfecting air conditioning systems.

CAUTION: Goggles and rubber gloves should be worn during application and handling of disinfectant solution. Avoid contact with eyes. Wash thoroughly with soap and water after handling. **USE ONLY IN WELL VENTILATED AREAS. DO NOT INHALE FUMES.**

1. Remove power module from evaporator case leaving wire connectors attached.

CAUTION: Power module heat sink may be hot.

2. Check evaporator drains for obstructions.
3. Open all vehicle windows and doors.
4. Start vehicle and set electronic climate control to ECON, 60°F temperature.
5. Insert nozzle of siphon-type parts cleaning spray gun, capable of delivering 4 oz. per minutes of liquid when driven with shop air at 80-90 PSI, through the power module opening and insert the siphon hose into the container of mixed disinfectant. Direct spray toward evaporator face, taking extra care to ensure adequate coverage of the corners and edges around the foam rubber seal to completely saturate the entire core. Use the entire contents of disinfectant container.
6. Reach into the vehicle and turn off the ignition. Allow the core to soak for 5 minutes.
7. Reach into the vehicle and turn the ignition on. Rinse the evaporator core with 1 quart of clean water through the power module opening using the spray gun, taking care to rinse the entire core face thoroughly.
8. Reach into the vehicle and turn off the ignition. Reinstall the power module.

CAUTION: Power module heat sink may be hot.

9. Reach into vehicle and start the engine. Allow core to dry, with the engine running, for at least 10 minutes.

NOTE: Be certain that sprayer tank, hoses and nozzle are thoroughly clean and not contaminated with chemical residue from previous use.