

H-D-D, 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.

H-D-D, 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. Kagan H-D-D, 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 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 if swallowed. Avoid contamination of food.

**STORAGE AND DISPOSAL**

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

OPEN BURNING 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 FEDERAL PESTICIDE CONTROL 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 DRUG/PESTICIDE REGULATIONS AND PROCEDURES.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated,

APR 25 1984

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

24586-5

BEST DOCUMENT AVAILABLE

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

**Active Ingredients**

Octyl decyl dimethyl ammonium chloride	0.768%
Dioctyl dimethyl ammonium chloride	0.384%
Dodecyl dimethyl ammonium chloride	0.384%
Alkyl (C <sub>12</sub> 50%; C <sub>10</sub> 40%; C <sub>8</sub> 10%) dimethyl benzyl ammonium chloride	1.024%
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. Monitor against circulatory shock, respiratory depression, and convulsions may be expected.

**SEE LEFT PANEL FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS**

EPA Registration No. 24586

EPA Establishment No.

Net Contents

MANUFACTURED BY:  
Kagan Industries A Div. of Creative Metal Products  
Inc., 150 S. Sangamon Chicago, Ill. 60607  
**For Sale For Use And Storage  
By Institutions 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.

H-D-D, is a proven "one-step" cleaner - disinfectant - sanitizer - fungicide - mildewstat - virucide in the presence of organic soil.

Apply H-D-D, to walls, floors and other hard (non-porous) surfaces such as tables, chairs, countertops, sinks and bed frames with a cloth, mop or mechanical spray. Surface must be sprayed thoroughly wet. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or when the solution becomes visibly dirty. Treated surfaces must remain wet for ten minutes.

**Efficacy -**  
For Schools, Institutions (Non Medical) & Institutional Use: 2 oz. per gallon use level. The activity of H-D-D, has been evaluated in the presence of water 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:

- Staphylococcus aureus
- Salmonella typhi
- Staphylococcus aureus
- Salmonella choleraesuis
- Escherichia coli
- Streptococcus pyogenes
- Proteus mirabilis
- Klebsiella pneumoniae
- Enterobacter aerogenes
- Salmonella schottmulleri
- Shigella dysenteriae
- Breubacterium ammoniigenes

For Hospitals and Nursing Homes: 3 oz. per gallon use level. At this dilution, H-D-D, 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.

**Virucidal Performance:** At 2 oz. per gallon use level, H-D-D, was evaluated in the presence of 1% serum and found to be effective against the following viruses: Influenza A (Duck) virus, Herpes Simplex and Varicella zoster (chickenpox) environmental surfaces.

**Fungicidal Performance:** H-D-D, is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) when used at 2 oz. per gallon use level in locker rooms, dressing rooms, showers and bath areas, exercise facilities, etc.

**Mildewstat Performance:** At 2 oz. per gallon, H-D-D, will effectively inhibit the growth of mildew and mold 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:** After surface use, 10 second contact time. H-D-D, is effective at 100 ppm in waters of up to 400 ppm hardness against Staphylococcus aureus and Klebsiella pneumoniae on both porous and non-porous surfaces. For sanitizing non-food contact surfaces, NO POTABLE WATER RINSE IS REQUIRED.

<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> <b>OFFICE OF PESTICIDES PROGRAMS</b> REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	25 APR 1984
	NAME OF PESTICIDE PRODUCT	
<b>NOTICE OF PESTICIDE:</b> <input type="checkbox"/> REGISTRATION <input checked="" type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</i>		
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
<p style="text-align: center;"> <input type="checkbox"/> </p> <p style="text-align: center;"> <input type="checkbox"/> </p> <p style="text-align: center;"> <input type="checkbox"/> </p> <p style="text-align: center;"> <input type="checkbox"/> </p>		
<b>NOTE:</b> 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.		
<p style="text-align: center;"> <input checked="" type="checkbox"/> ATTACHMENT IS APPLICABLE         </p>		
SIGNATURE OF APPROVING OFFICIAL		DATE

4. The confirmatory data submitted March 31, 1984, are acceptable and have been assigned the Accession Number 252952.

5. 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 FIFRA 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.

*James H. Banks*

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

Enclosures

DCR-04923:Lee:Raven:557-2226:tar:RD-23:4/23/84:Del.5/4/84