

Cross-contamination is of major housekeeping concern in schools, medical institutions, and industry. DEO-PINE has been formulated to aid in the reduction of cross-contamination in these areas.

DEO-PINE is a one-step disinfectant cleaner that is effective against a broad spectrum of bacteria, is fungicidal, and will prevent the growth of mold and mildew and their odors when used as directed.

DEO-PINE is an effective one-step sanitizer-cleaner for use on non-food contact surfaces.

When used as directed, DEO-PINE will deodorize surfaces in toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause mal odors.

Precautionary Statements

Hazards to Humans and Domestic Animals

DANGER

Keep out of reach of children. Corrosive. Causes eye damage 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. Avoid contamination of food.

STORAGE AND DISPOSAL

- Do not contaminate water, food or feed by storage or disposal
- Do not reuse empty container.
- Rinse empty container thoroughly with water and detergent and discard in trash collection

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame

ACCEPTED
with COMMENTS
in EPA Letter Dated:
24909-15
JUL 19 1964

Under the provisions of the
Fungicide, Insecticide, and
Herbicide Act, this product is
registered under EPA Reg. No. 24909-1

DEO-PINE

QUATERNARY PINE-OIL

Disinfectant-Cleaner-Sanitizer-Fungicide
Mildewstat-Deodorizer With Organic Tolerance
For Medical & Non-Medical Use Areas*
Plus Disinfectant Hard Water
(400 ppm Calculated As CaCO₃) Tolerance
For Non-Medical Use Areas**
Hospital-Institutional-Industrial and School Use

Active Ingredients

Octyl decyl dimethyl ammonium chloride	0.570%
Dioctyl dimethyl ammonium chloride	0.285%
Didecyl dimethyl ammonium chloride	0.285%
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) dimethyl benzyl ammonium chloride	0.760%
Pine Oil	2.500%
Inert Ingredients	95.600%
	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: Probably 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 Reg. No. 24909-
EPA Est. No. 24909-CA-1
Net Contents

KNAPP CHEMICAL COMPANY

5227 E Pine Ave. Fresno, Calif. 93747
For Sale For Use And Storage
By Maintenance Personnel Only

Directions for Use

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

DEO-PINE is a proven "one-step" cleaner-disinfectant-sanitizer-fungicide-mildewstat in the presence of organic soil.

Apply DEO-PINE 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 becomes visibly dirty. Surfaces must remain wet for ten minutes.

Disinfection —

Non-Medical Use Areas* — Schools, Institutions, and Industries. At 2.5 oz. per gallon use level... The activity of DEO-PINE has been evaluated 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
- Streptococcus faecalis
- Enterobacter aerogenes
- Shigella dysenteriae
- Brevibacterium ammonigenes

Non-Medical Use Areas —** At 5 oz. per gallon use level, the activity of DEO-PINE has been evaluated in the presence of both 5% blood serum and 400 ppm hard water against Staphylococcus aureus, Salmonella choleraesuis and Escherichia coli.

Medical Use Areas* — Hospitals and Nursing Homes. At 5 oz. per gallon use level. At this dilution DEO-PINE is effective against Pseudomonas aeruginosa.

Fungicidal Control — At 2.5 oz. per gallon use level, DEO-PINE when used on surfaces in areas such as locker rooms, dressing rooms, shower and bath areas, exercise facilities. Fungicidal activity has been demonstrated in the presence of both 5% blood serum and 400 ppm hard water against Trichophyton mentagrophytes (the athlete's foot fungus).

Mold and Mildew Control — At 2.5 oz. per gallon use level, DEO-PINE will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, non-porous surfaces (as indicated in general instructions above). Allow to dry on surface and repeat application when mildew growth returns.

Sanitizing-Non-Food Contact Surfaces (such as floors, walls, tables, etc.) At 1 oz. per gallon use level prepared in water up to 800 ppm hardness, DEO-PINE is an effective sanitizer against Staphylococcus aureus and Klebsiella pneumoniae on hard porous and non-porous environmental surfaces. Treated surfaces must remain wet for 90 seconds.

BEST DOCUMENT AVAILABLE

<p align="center">U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460</p> <p>NOTICE OF PESTICIDE: <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREISTRATION <i>(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</i></p>	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	<p align="center">JUL 19 1964</p>
	NAME OF PESTICIDE PRODUCT	
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
<p>BEST DOCUMENT AVAILABLE</p>		
<p>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.</p>		
<p>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.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>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>		
<input type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE