

# Phenolic Disinfectant Concentrate - Pine

Pine Oil 5% w/w · Floor Disinfection

## KEY BENEFITS

— <b>Pine Oil 5% w/w</b>	phenolic disinfection with a century of proven institutional deployment — effective against gram-positive and gram-negative bacteria at standard dilution.
— <b>pH 8–10</b>	alkaline formulation remains potent in hard water conditions across Indian municipal supplies where TDS routinely exceeds 500 ppm.
— <b>25 ml / 45 ml dilution system</b>	a single concentrate serves both routine daily cleaning and post-incident heavy-soil protocols without changing product.
— <b>No rinsing required</b>	reduces cleaning cycle time by 20–30% in high-frequency institutional mopping schedules.
— <b>Bilingual label</b>	English and Hindi instructions ensure every staff member can execute the correct protocol regardless of literacy level.
— <b>Preparation</b>	Fill a clean mop bucket with the required volume of water. Add concentrate after water to minimise foam.

## AT A GLANCE

<b>pH</b>	8.0–10.0 (alkaline)
<b>Fragrance</b>	Pine — institutional grade
<b>Pack size</b>	5 Litres concentrate
<b>Shelf life</b>	24 months from date of manufacture, unopened
<b>Safe on</b>	Marble, ceramic tile, vinyl, mosaic, concrete, composite flooring
<b>Rinse after use</b>	Not required
<b>Application</b>	Mop / floor machine

## HOW TO USE

- 1 Preparation**  
Fill a clean mop bucket with the required volume of water. Add concentrate after water to minimise foam.
- 2 Standard dilution**  
25 ml per litre of water for routine daily cleaning of all floor types in occupied institutional areas.
- 3 Heavy-soil dilution**  
45 ml per litre for post-incident cleaning, high-traffic zones, or areas with visible soiling.
- 4 Application**  
Apply with standard cotton or microfibre flat mop using overlapping strokes. Ensure complete surface contact.
- 5 Dwell & dry**  
Allow to air-dry naturally. No rinsing required. Replace solution every 2–3 hours or when visibly contaminated.

## WHY IT WORKS

How does phenolic disinfection work, and why does pH matter? Pine oil contains terpenoid phenolic compounds — primarily terpineol and related monoterpenes — that act as broad-spectrum antimicrobials by disrupting the structural integrity of bacterial cell membranes. On contact with bacteria, these phenolic molecules intercalate into the lipid bilayer of the cell wall, causing membrane permeabilisation, leakage of intracellular contents, and cell death. The mechanism is non-specific, making it effective across a broad range of gram-positive and gram-negative organisms. The alkaline pH of 8–10 is critical to maintaining phenolic efficacy in diluted working solution. Phenolic compounds exist in equilibrium between their protonated and deprotonated (phenolate) forms. The deprotonated phenolate form — present at higher pH — has greater membrane-penetrating activity and superior antimicrobial potency. Formulating at pH 8–10 ensures the active is predominantly in its most effective chemical state when delivered to the floor surface. Additionally, the alkaline environment helps counteract the calcium and magnesium ions in hard water that would otherwise bind to phenolic compounds and reduce their availability at the bacterial target site. In facilities supplied with hard municipal water, this pH engineering translates directly into consistent, predictable disinfection outcomes that phenolic formulations at neutral pH cannot guarantee.

## DID YOU KNOW

Fact Pine oil was one of the first recorded natural disinfectants — used in surgical wards before modern chemistry existed. Joseph Lister's antiseptic protocols in the 1860s drew on the same phenolic compound family. Your mop bucket is running 160-year-old science that still outperforms half the products launched this decade.

## WHAT YOU GET FROM ONE PACK

### One 5-litre concentrate.

Two hundred litres of disinfected floor. At 25 ml per litre, a single 5L pack yields 200 litres of working solution — 40 full mop buckets. For a healthcare facility of 15,000 sq ft mopped twice daily with a standard 5-litre bucket, one pack delivers 20 days of continuous floor disinfection coverage. At 45 ml heavy-soil dilution for post-incident ward cleaning, the same pack covers 111 litres of emergency-grade working solution. Versus equivalent ready-to-use phenolic disinfectants at comparable coverage, the concentrate format reduces per-litre cost by 70–75% and eliminates the storage and disposal burden of 40 individual RTU bottles per equivalent volume.

## FULL PRODUCT SPECIFICATIONS

<b>Active ingredient</b>	Pine Oil 5% w/w
<b>Active class</b>	Phenolic terpene — broad-spectrum antimicrobial
<b>pH</b>	8.0–10.0 (alkaline)
<b>Specific gravity</b>	1.01–1.03 at 25°C
<b>Formulation type</b>	Aqueous concentrate
<b>Appearance</b>	Milky white to light amber emulsion
<b>Fragrance</b>	Pine — institutional grade
<b>Dilution — standard</b>	25 ml per litre of water (1:40)
<b>Dilution — heavy soil</b>	45 ml per litre of water (1:22)
<b>Application</b>	Mop / floor machine
<b>Dwell time</b>	No active dwell — allow to air-dry
<b>Safe on</b>	Marble, ceramic tile, vinyl, mosaic, concrete, composite flooring
<b>Rinse after use</b>	Not required
<b>PPE</b>	Gloves recommended for concentrate handling
<b>Shelf life</b>	24 months from date of manufacture, unopened
<b>Pack size</b>	5 Litres concentrate
<b>MSDS / TDS</b>	QR code on label · Available on request

## CAUTION & STORAGE

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### Handle with care.

For professional and institutional use. For external use only. Keep out of reach of children. Avoid prolonged or repeated skin contact with concentrate. In case of eye contact, rinse immediately with copious clean water for 15 minutes and seek medical advice. Do not mix with bleach or acid-based cleaners — incompatible combinations may generate harmful vapours. Store in original sealed container below 30°C, away from direct sunlight and heat sources. Do not store near food, feed, or potable water. Keep container tightly closed when not in use. Working solution should be prepared fresh and used within 4 hours. Shelf life 24 months from manufacture date, unopened.

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Champan Innovatives Private Limited · Alle's ClinX · A 641, Shiv Nagar Part 2, Dharuhera, Rewari, Haryana 123106 · [allesclinx.com](http://allesclinx.com) · [care@allesclinx.com](mailto:care@allesclinx.com)

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### BEFORE YOU START — PPE REQUIRED

- ✓ Chemical-resistant gloves (nitrile)
- ✓ Safety goggles / eye protection

### QUICK REFERENCE

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**HAZARD ! MODERATE**

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- ✓ For external use only.
- ✓ In case of eye contact, rinse immediately with copious clean water for 15 minutes and seek medical advice.
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### DON'T

- ✗ Keep out of reach of children.
- ✗ Avoid prolonged or repeated skin contact with concentrate.
- ✗ Do not mix with bleach or acid-based cleaners — incompatible combinations may generate harmful vapours.
- ✗ Do not store near food, feed, or potable water.

Emergency / questions: care@allesclinx.com · allesclinx.com · National Poison Control (India): 1800-116-117