

# ELECTROSTATIC SPRAYING

Cleaning and disinfection guidance for the  
use of electrostatic sprayers in K-12  
schools and higher education



# CONSIDERATIONS PRIOR TO USE



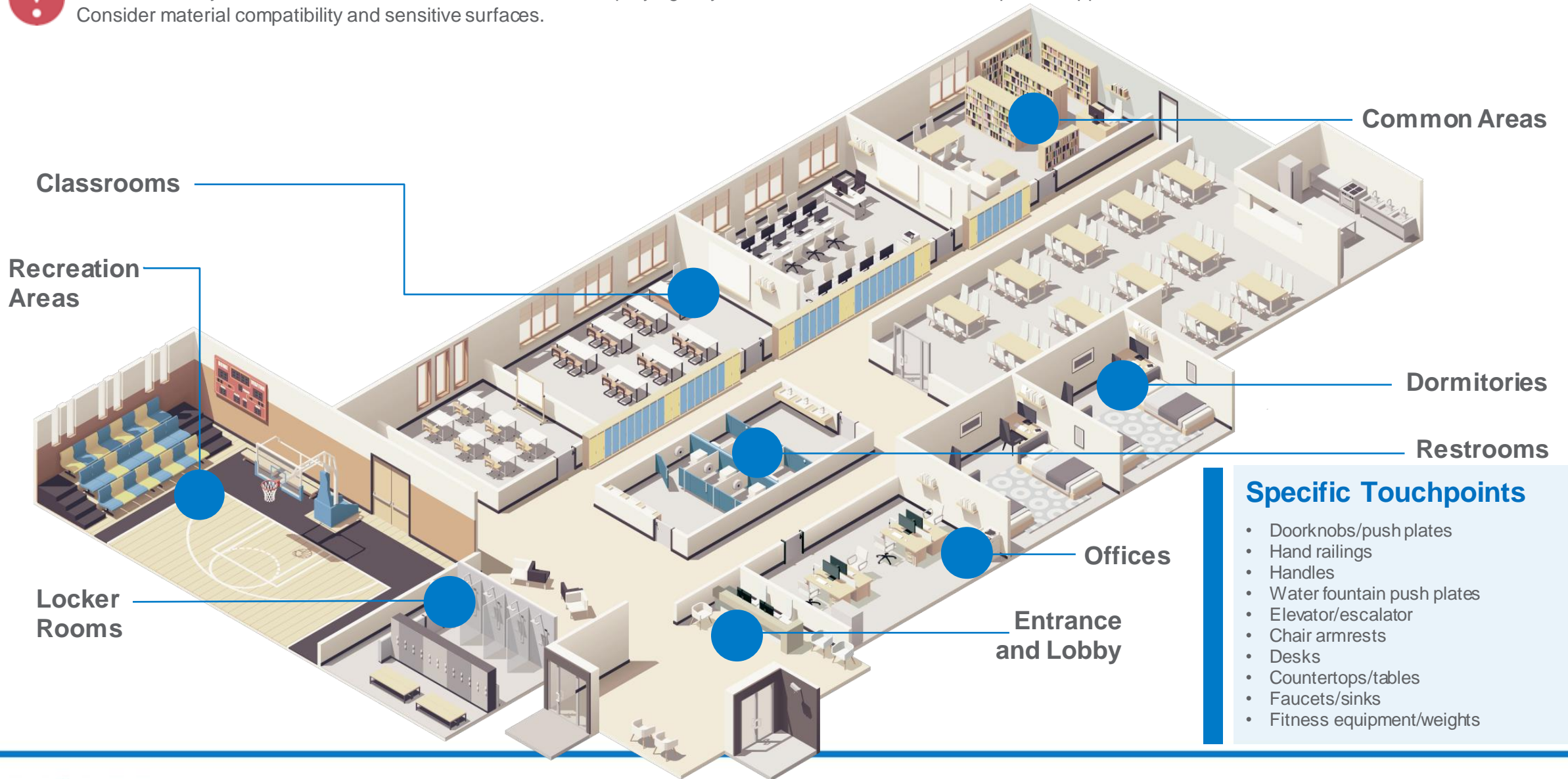
- **Assess your location** to determine where electrostatic spraying may be **most beneficial and effective** prior to application. Consider material compatibility and sensitive surfaces.
- Electrostatic spraying **should not replace regular cleaning procedures**. These devices do not remove soil, debris or blood and body fluids; they help apply the product more evenly across surfaces and in difficult to reach areas. Use of an electrostatic sprayer should be **in addition to, and not in place of, manual cleaning**.
- **DO NOT MIX CHEMICALS**. Be mindful of other chemicals in the area to avoid chemicals mixing, including ensuring chemical reservoirs are labeled and chemicals do not mix in the electrostatic spraying device. Ensure the electrostatic spraying device is thoroughly rinsed before storing. **Refer to the product label for complete directions for use.**

Review the following procedures thoroughly and ensure proper training before use.

# ELECTROSTATIC SPRAYING IN EDUCATION



**NOTE:** Assess your location to determine where electrostatic spraying may be most beneficial and effective prior to application. Consider material compatibility and sensitive surfaces.



# GUIDELINES FOR USE



## Set-up of Unit

- Ensure battery is fully charged
- Fill and label chemical reservoir
- Ensure reservoir is secured to unit
- Ensure device is set to deliver 40 microns or larger in particle size (if adjustable)
- Turn electrostatic mode to 'on' (if applicable)
- Unlock trigger
- Firmly wrap hand around ground before initiating spray

## Storage of Unit

- Remove reservoir and triple rinse with fresh water
- Spray fresh water through unit to rinse inside lines
- Lock trigger
- Turn unit 'off'
- Remove battery and store on charger
- If chemistry remains in reservoir, store labeled and capped

# GUIDELINES FOR USE



## DO'S For Electrostatic Spraying

- **DO** place signage indicating area is closed or out of service
- **DO** ensure no bystanders are present
- **DO** address any ventilation concerns (i.e., avoid confined spaces with poor ventilation)
- **DO** ensure food or food related items are removed from space and any food contact surfaces are rinsed with potable water post-spray
- **DO** avoid contact with eyes, skin or inhalation while spraying
- **DO** ensure spraying is away from user breathing zone
- **DO** move from sprayed areas to unsprayed areas
- **DO** wear proper PPE (minimally – sealed dust/mist mask/N95 or half-face respirator in addition to any required per the product label)
- **DO** allow for 15-minute resettling time post-spray

## DON'TS For Electrostatic Spraying

- **DON'T** spray flammable products – spray only products recommended by Ecolab
- **DON'T** spray areas with sources of heat, open flames, sparks or other ignition sources
- **DON'T** spray electronics or sensitive items unless this application is confirmed with the manufacturer.
- **DON'T** spray directly on people or animals.
- **DON'T** use electrostatic spraying to treat the air.



# PRODUCTS AND TOOLS

## General Instructions

### What products do you need?

Multi-Purpose Disinfectant

### What tools do you need?

Electrostatic sprayer, 'Area Closed/ Out of Service' sign, PPE (minimally – sealed dust/mist mask/N95 or half-face respirator in addition to any required per the product label), 'Wet Floor' sign, refillable spray bottles, trigger sprayers, microfiber cloths, vacuum, dust pan/broom, mop pole/pad and bucket, window scrubber/squeegee



Cleaning & Disinfection Frequency \_\_\_\_\_

Inspection Frequency \_\_\_\_\_

Responsible \_\_\_\_\_

Required PPE\* \_\_\_\_\_

\*in addition to any required by product label



To help protect against COVID-19 and other infectious pathogens, ensure treated surfaces remain wet for contact time indicated on product label.

*\*Refer to product label for use directions*

# ELECTROSTATIC SPRAYING PROCEDURE

Cleaning and disinfection guidelines for K-12 schools and higher education

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Don required PPE (minimally – sealed dust/mist mask/N95 or half-face respirator in addition to any required per the SDS), and place ‘Area Closed/Out of Service’ signage.
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Remove trash/debris, linens, food and any ware.
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Vacuum carpet/entrance mats and vacuum or sweep hard-surfaced floors (tile/wood/LVT).
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Empty trash cans and recycling bins. Replace liners.
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Refill air freshener, hand sanitizer and disinfectant wipe dispensers as needed.
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Remove or cover electronics, high-value items or sensitive surfaces.
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Pre-clean visibly soiled areas (e.g., food/drink spills) using **multi-purpose disinfectant cleaner**.
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To disinfect using an electrostatic sprayer, apply **multi-purpose disinfectant cleaner** solution to hard, non-porous environmental surfaces.

# ELECTROSTATIC SPRAYING PROCEDURE

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9



Begin spraying area from the farthest corner ensuring no more than 2 feet (60 cm) between the spray nozzle and the surface. Be aware of possible overspray.

10



**Ensure treated surfaces remain wet for contact time indicated on product label.** Allow spray to settle for 15 minutes before re-entering the area.

11



Wipe surfaces (recommended) or let air dry. For electronics, spray a cloth and wipe surface.

12



Clean glass and windows by spraying **multi-purpose disinfectant** or glass cleaner on a fresh microfiber to ensure a streak-free finish.

13



Mop hard-surfaced floors (tile/wood/LVT) to remove overspray or settled product.



**NOTE:** Ensure spraying is always away from user breathing zone and movement is from sprayed areas to unsprayed areas.

Refer to product label for complete directions for use.

## Specific Touchpoints

- Doorknobs/push plates
- Hand railings
- Handles
- Water fountain push plates
- Elevator/escalator
- Chair armrests
- Desks
- Countertops/tables
- Faucets/sinks
- Fitness equipment/weights

## Electronic Touchpoints\*

- Elevator buttons
- Light switches
- Thermostat
- Keyboard
- Computer mouse
- Remote control
- Phones
- Touchscreens
- ATMs

List is not exhaustive – assess your facility for additional touchpoints.



# ELECTROSTATIC SPRAYING RESOURCES



## WHAT IS ELECTROSTATIC SPRAYING?

An Efficient Solution for Disinfecting

### ELECTROSTATIC SPRAYING 101

It is critical to ensure your team and customers that your space is not only clean, but disinfected. Ecolab offers several disinfecting solutions to help you deliver on your safety promise for both staff and guests. Solutions that are paired with Electrostatic Spraying (ESS) can help your disinfecting procedures become more effective and efficient.

ESS gives you the ability to rapidly and evenly coat hard surfaces with comprehensive coverage.

1. IDENTIFY EFFECTIVELY: Identify the surfaces and areas that need to be sprayed.
2. CONTINUOUSLY APPLY: Continuously apply the disinfectant to the surfaces.
3. INCREASE COVERAGE: Increase coverage by spraying the surfaces from multiple angles.
4. BE EFFICIENT: Be efficient by using the spray gun to cover large areas quickly.

**HIGH-TOUCH, HARD SURFACES AND AREAS CONDUCTIVE TO ESS USE:**

- Public Spaces
  - + Lobbies
  - + Fitness Centers
  - + Restrooms
  - + Waiting Areas
  - + Employee Areas
  - + Breakrooms
- High Touchpoints
  - + Doors
  - + Elevators
  - + Staircases
  - + Drinks
  - + Door Handles
  - + Stair Railings
- Restrooms
  - + Chair Handles
  - + Faucets
  - + Toilets
  - + Countertops
  - + Sinks
  - + Urinals

Contact your Ecolab representative to learn about products specific to ESS. Call 1 800 35 CLEAN or visit [Ecolab.com/coronavirus](https://www.ecolab.com/coronavirus) for more information.

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### FAQs for Electrostatic Spraying

**WHAT IS ELECTROSTATIC SPRAYING AND HOW DOES IT WORK?**

Electrostatic spraying devices apply an electric charge to liquid particles. This charge causes the droplets to behave like tiny magnets. Because the droplets are all given the same charge, the droplets repel each other to spread out evenly across the surface being sprayed. This provides uniform and comprehensive coverage of surfaces, making product application very efficient. Environmental surfaces often have the opposite charge on their surface, causing the droplets to be attracted to the object being sprayed. These devices and products are not designed to treat the air. Hard surfaces must remain wet for the specified dwell time to achieve disinfection.

**What is the difference between trigger spraying and electrostatic spraying?**

**TRIGGER SPRAYERS**  
Traditional trigger sprayers provide a manual method of spraying product, with nozzles that can often adjust between a fine and coarse spray. They are excellent tools for delivering product in a very directed manner. They are well suited to small and mid-sized spaces.

**ELECTROSTATIC SPRAYERS**  
For mid to larger-sized spaces, electrostatic sprayers can provide many efficiencies. Electrostatic sprayers provide a continuous spray, making it very easy to evenly and consistently treat broad surfaces. An electrostatic sprayer also applies an electric charge to the droplets, allowing them to evenly spread across the surface being sprayed.

**What products can I use through an electrostatic sprayer?**  
Electrostatic sprayers can be very versatile tools, when used according to the manufacturer's directions. They can be used to efficiently apply sanitizers and disinfectants to a wide variety of areas. Do not use flammable or oil based products through an electrostatic sprayer.

Safety testing is required to demonstrate that sanitizers and disinfectants will provide the appropriate level of efficacy (i.e., ability to kill microorganisms) when used through an electrostatic sprayer. Please refer to your Ecolab rep for more information on recommended disinfectants and sanitizers for electrostatic spraying prior to use.

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## HOW TO USE ELECTROSTATIC SPRAYERS?

**ELECTROSTATIC SPRAYING**  
Cleaning and disinfection guidance for the use of electrostatic sprayers in commercial facilities

**ELECTROSTATIC SPRAYING**  
Cleaning and disinfection guidance for the use of electrostatic sprayers in hospitality

**ELECTROSTATIC SPRAYING**  
Cleaning and disinfection guidance for the use of electrostatic sprayers in hospitality

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Electrostatic Spraying Overview and FAQs

Electrostatic Spraying Procedures and Videos  
Available for Commercial Facilities, Education and Hospitality

➤ Contact your Ecolab representative for more information.



**For more information contact your:**

Ecolab Representative or call 1-800-352-5326

Ecolab Pest Representative or call 1-800-325-1671

Nalco Water Representative or call 1-800-288-0897

or visit **Ecolab.com**