



# LAUSD-OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY

## JOB SAFETY ANALYSIS

### OPERATING AN EMIST EM360 ELECTROSTATIC SPRAYER

**General Precautions:** Ensure PPE is in good condition.

#### Required Personal Protective Equipment (PPE)\*

Safety goggles, chemical resistant gloves, long sleeves, slip resistant shoes

*Optional: non-NIOSH rated dust mask*

#### Required Training

Operation of equipment, PPE, Hazard Communication, and California Department of Pesticide Regulation (CDPR)



**SAFETY WARNING:** Do not use the electrostatic application system if you have a pacemaker or an Implantable Cardioverter Defibrillator (ICD).

\*Additional training and PPE may be required depending upon the scope of the activities to be performed. All construction areas must be demarcated and barricaded.

TASK	HAZARDS	CONTROLS
Notes about the technology		<p>Do not over saturate area!!!!</p> <p>The machine gives a positive charge to the chemical as it leaves the sprayer. The chemical bonds to all surfaces, which are negatively charged.</p> <p>Positively charged chemical mist will naturally enter cracks and crevices as well as bond to hard to reach or out of view surfaces such as the underside of tables, the backs of chairs and keyboards.</p> <p>The electrostatic charge improves liquid adhesion to targeted surface(s).</p> <p>Generally, wiping down surfaces is not required with this application.</p>

	1. Equipment inspection	Inhalation Chemical	<p>Ensure tool is off when inspecting.</p> <p>Always turn the system off when not in use.</p> <p>Make sure all parts and accessories are in good operating condition and secured.</p> <p>Check battery levels to ensure a fully charged battery is installed.</p> <p>Refer to the chemical solution instructions for the proper use and contact time.</p> <p>Do not place body parts or any foreign object into any opening of the sprayer.</p> <p>Never place equipment in standing water or liquid.</p> <p>Never operate the sprayer if it has been damaged or if it is not working properly.</p>
	2. Preparing for work	Inhalation Chemical Slips, Trips, Falls	<p>Put on PPE</p> <p>Open doors and windows to establish good ventilation.</p> <p>Turn on the HVAC system to fan mode to establish good ventilation.</p> <p>Disinfectant must be an OEHS and EPA approved disinfectant.</p> <p>Disinfectant must be manufacturer approved for use with an electrostatic sprayer.</p> <p><b><i>NOTE: DO NOT ADD CHEMICALS THAT ARE NOT DESIGNED FOR USE WITH THE SPRAYER.</i></b></p> <p>When diluting concentrate, add water to the bucket prior to adding chemical.</p> <p>Follow manufacturer's instructions for proper chemical/water ratio.</p> <p>Always wear the grounding strap to prevent electrostatic shock.</p> <p>Ensure grounding strap is worn according to manufactures instructions.</p> <p>Ensure the ground strap does not create a tripping hazard</p> <p>Use proper lifting techniques to avoid a back injury.</p> <p>Adjust backpack straps to optimize fit and comfort.</p> <p>If necessary, the weight of the backpack can be reduced by not filling the reservoir to full capacity.</p> <p>Only use and install authorized replacement accessories, components and attachments specific to the equipment and recommended by the manufacturer.</p> <p>Do not attempt temporary repairs.</p>

	<p>3. Operating/starting equipment</p>	<p>Inhalation Chemical Slips, Trips, Falls</p>	<p>Do not use the sprayer in occupied spaces.  Never point the sprayer toward people.  Never touch or handle the charging area within the applicator (front end) during spraying.  Never reach inside of the applicator while the sprayer is powered on.  If working outdoors, be mindful of wind. Always apply mist with the wind at your back.  Use caution because the mist may produce slip hazards  Do not apply too much mist.  Drips or puddles indicate that too much mist is applied to one surface.  Use caution when spraying around electronics. Do not allow drips and pooling.  Use proper lifting techniques when hoisting the backpack.  Extra weight from the backpack requires additional caution to avoid losing balance.  Do not spray over any food or other consumables.  Optimal spray distance is 3 to 5 feet away from the surface/target.  Do not spray ceilings.  Do not spray overhead.  Do not spray floors.  Utilize an “S” pattern to dispense mist.  Walk at a comfortable, average pace to dispense mist.  Only depress the trigger when disinfecting an area.</p>
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I have received, read and understood the contents of this JSA and have also acquired the aforementioned required training.

<b>NAME:</b>	
<b>DEPARTMENT <i>or</i> SCHOOL:</b>	
<b>JOB TITLE:</b>	
<b>EMPLOYEE ID:</b>	
<b>DATE:</b>	
<b>SIGNATURE:</b>	

For more information about this JSA, contact the *Office of Environment, Health and Safety* at LAUSD, 333 South Beaudry Avenue, 21<sup>st</sup> Floor, Los Angeles, CA-90017  
213-241-1000 ● <http://achieve.lausd.net/oehs>