

PV 2-Gram Activation Instructions

v2.4 _ September 1, 2023

Personal Protection Equipment (PPE):	
Rubber Gloves (nitrile or latex)	Use nitrile gloves while handling PV and keep PV free from contact with any other chemicals or substances.
Safety Glasses	Always wear safety glasses when using or handling PV.
Chlorine Dioxide (ClO ₂) Monitor	A personal chlorine dioxide monitor should be worn near the collar of the shirt for each person involved in a PV treatment. See the following link for the recommended equipment: Honeywell BW Solo
Full-Face Respirator & filters rated for ClO ₂	Full-Face respirator is recommended for treatment times of three hours, but not a requirement for working with the PV2 product when longer treatment times are utilized. See the following links for the recommended equipment: Full face respirator

Equipment:	
Scissors/Utility Knife	Used to cut open PV package.
Water Bottle (20 oz or larger)	Water is used to fill launcher caps.
Tape (no residue duct tape ideal)	If gasket on panel door is deficient, tape should be used to ensure the proper seal.

Pre Treatment (small cabinets):	
Clean Cabinet	Physically clean the inside of cabinet to remove any organic matter and dirt that may prevent ClO ₂ gas from contacting the surface. (eg. Food, heavy grease, dirt or dust, etc.) Contact Pureline with any questions about other materials or chemicals that will be in the treatment area, for which you have questions or concerns about possible interactivity between the chlorine dioxide and said materials.
Red "Danger" Tape & Signage	Use appropriate DO NOT ENTER signage to notify all persons that the cabinet is being treated with ClO ₂ gas. It is recommended to tape off a 3 - 5-foot circle perimeter around the cabinet with red 'danger' or yellow 'warning' tape.
Door Gasket	Inspect door gasket and determine if it is good working condition. If it is not, you will need to seal the door seams with tape within 2 – 3 minutes after PV activation.

Treatment:	
PV Launcher Cap Placement	Place launcher inside the cabinet on an even surface.
PV Launcher Cap Readiness	Fill launcher cap half full of water.
Activation	Open PV package and place one PV in the launcher. It is recommended that the PV remains in the cabinet for approximately three (3) hours to allow for effective kill. 6 – 8 hours or overnight is ideal to allow gas to completely degrade to Oxygen and Chloride ions.
Sealing	Close and lock cabinet door. Lock out/tag out is ideal. Place tape around the seal of the door if your ClO ₂ monitor is detecting gas.

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Post Treatment:	
Personal Protection Equipment (PPE)	Full-Face Respirator & filters rated for ClO ₂ , nitrile or latex gloves, safety glasses, ClO ₂ monitor.
Exhaust residual ClO ₂ gas	For a 3-hour treatment, don the respirator, open cabinet door and remove PV. If treating for more than 6-hours, the gas will be fully degraded, and cabinet can be opened without the respirator.
Exhaust Time	For a 3-hour treatment, allow approximately 10 minutes for gas to completely dissipate from cabinet. Use your ClO ₂ monitor to determine that the gas has completely dissipated to a concentration of equal to or less than 0.1 parts-per-million.
Water bottle (1 quart per each PV 2-gram capsule)	Place PV 2-gram capsule(s) into a water bottle filled with water and put cap on the water bottle. After 24 hours, discard capsule and empty water into drain. Solution is will have degraded to water and harmless to environment.
Disposal of Launcher Cap	Rinse cap and discard in trash.

See PV Material Safety Data Sheet or www.PV.info for More Information