

# PureVista 100-Gram Activation Instructions

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Personal Protection Equipment (PPE):	
Rubber Gloves (nitrile or latex)	Never touch any PureVista without rubber gloves and keep PureVista free from contact with any other chemicals or substances.
Safety Glasses	Always wear safety glasses when using or handling PureVista.
Chlorine Dioxide (ClO <sub>2</sub> ) Monitor	A personal chlorine dioxide monitor should be worn near the collar of the shirt for each person involved in a PureVista treatment. See the following link for the recommended equipment: <a href="#">Honeywell BW Solo</a>
Full-Face Respirator & filters rated for ClO <sub>2</sub>	Full-Face respirator should be worn anytime you are handling the PureVista product. See the following links for the recommended equipment: <a href="#">Full face respirator</a>
Personnel Readiness & Safety	If personnel need to enter a treatment area, then at least two persons should be in the treatment area for safety purposes. A third person should be outside the treatment area during activation with visual and audio contact with the persons in the treatment area during the activation process.

Equipment:	
Scissors/Utility Knife	Used to cut open safety seal on PureVista package.
Bottle or small jug for water used to activate PureVista	Bottle is used to fill canisters and activate PureVista using between 15ml and 50ml of water, depending upon size of PureVista deployed.
Tape & polyethylene plastic (no-residue duct tape ideal)	To seal seams and hinges on man-doors, and for sealing with plastic of larger areas & vents to prevent gas from escaping to outside of building and/or areas that will not be treated.

Pre Treatment:	
Clean prior to treatment	Physically clean the floors and processing equipment of organic matter and dirt that may prevent ClO <sub>2</sub> gas from contacting the surface. (eg. Food, heavy grease, dirt or dust, etc). Any food or food ingredient should be removed from the treatment area. 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 area is being treated with ClO <sub>2</sub> gas. This should include locking doors and placing red 'danger' tape across all entry ways.
Exhaust Planning to remove residual gas at completion of treatment	Plan how you will exhaust the residual gas upon cessation of chlorine dioxide treatment. Exhaust system (whether HVAC or fans) must be turned on from outside the treatment area, and exhausted to outside of building. Exhaust through the roof is ideal. If exhaust through doorway(s) leading to outside is required, set up red danger tape outside the doors for a perimeter of no less than 50 feet to prevent accidental inhalation of chlorine dioxide. The gas will quickly dissipate in the atmosphere.
Sealing confirmation	Inspect sealing of all doors, entry ways and vents to assure all areas are sufficiently sealed to prevent gas from escaping to the outside of treatment area and/or escaping beyond the areas that are being treated. Man doors should be sealed using non-residue duct tape or common painter's tape around the seams of doors and including the hinges of the doors. Vents and open entry ways should be sealed with polyethylene plastic (of any thickness), and securely sealed with tape on sides, tops, and bottoms. UV light will break down chlorine dioxide, therefore; cover windows and shut off lights to improve efficacy.

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Treatment:	
Decontamination capability	<ul style="list-style-type: none"> <li>- For microbial growth, use 100 grams per 500 cubic feet.</li> <li>- As a virucide, use 100grams per 2,000 cubic feet.</li> <li>- For odor control, use 100 grams per 1,000 square feet.</li> </ul> <p>It is recommended that the PureVista remains in treatment area for approximately four to six hours upon activation to allow for an effective chlorine dioxide gas treatment.</p>
Agitation of PureVista canister before opening	<b>IMPORTANT:</b> Shake canister vigorously for 3 – 5 seconds to loosen PureVista powder and assure proper activation of chemical.
PureVista Canister Placement	Place PureVista canisters equidistantly from each other in the areas that are being treated. To avoid bleaching risk, do not place directly on carpet or textile surface.
Activation	<b>IMPORTANT:</b> Remove lid and place lid upside down on a hard surface. Remove disposable fill cup from canister and fill cup with water to specified level (15 ml for PV12.5, 25ml for PV25 and 50 ml for PV50). Pour water into PureVista canister and agitate lightly to thoroughly mix water and chemical powder. Place face-up and inside the upside-down lid. Repeat for additionally deployed canisters. Note: room temperature tap water is recommended.
Final Sealing	Close all doors upon exiting treatment area after activation, and assure sealing is complete, including last door used. Lock out/ tag out is ideal. If required, place tape around the seams and hinges of door(s) used to exit treatment area.

Post Treatment:	
Personal Protection Equipment (PPE)	Full-Face Respirator & filters rated for ClO <sub>2</sub> , nitrile or latex gloves, safety glasses, personal ClO <sub>2</sub> monitor.
Exhaust residual ClO <sub>2</sub> gas	After approximately six (6) hours, turn on exhaust system from outside treatment area. In no circumstances should persons enter the treatment area to turn on exhaust system. Per exhaust planning step noted above, exhaust through roof is ideal. If exhaust through doorway(s) leading to outside is required, set up red danger tape, outside doors for a perimeter of no less than 50 feet around outside doorways to prevent accidental inhalation of chlorine dioxide gas as it escapes and quickly dissipates into atmosphere. Completely exhaust treatment area until the eight-hour safety level gas concentration of 0.1 ppm or less is reached.
Removal of Red Danger Tape & Signage	Remove ONLY after the OSHA 8-hour safe gas level of 0.1 ppm or less has been reached.
De-activation of PureVista after completion of treatment.	Pour approximately 100ml of neutralizer (depending on PureVista size) into each container to completely neutralize any remaining gas production. Replace lid on canister and shake gently for 3 – 5 seconds and discard the closed canister in regular trash container. Solution is now a salt solution and harmless to the environment.

See PureVista Material Safety Data Sheet or [www.purevista.info](http://www.purevista.info) for More Information