PureLine Solutions™

The $ClO_2GO_2$™

# PureVista 12.5, 25 & 50-Gram
## Activation Instructions

v2.1 _ October 1, 2019

| 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 ($ClO_2$) Monitor | A personal $ClO_2$ 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: Draeger Pac 8000 single gas detector monitor |
| Full-Face Respirator & filters rated for $ClO_2$ | Full-Face respirator should be worn anytime you are handling the PureVista product. See the following links for the recommended equipment: MSA 3200 full face-piece respirator and 815359 advantage cartridges |

| Equipment: | |
|---|---|
| Scissors/Utility Knife | Used to cut open PureVista package. |
| Watering can (1 gallon or larger) & ~30 gallon bucket | Water can is used to fill launchers; large bucket is used to neutralize PureVista upon completion of gassing. |
| 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 treatment area of known 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 area is being treated with $ClO_2$ 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. |

012519_PUR784-19

PureLine Solutions™

The $ClO_2GO_2$™

# PureVista 12.5, 25 & 50-Gram
## Activation Instructions

| Treatment: | |
|---|---|
| Decontamination capability | For microbial growth use 100 grams per 500 cubic feet (length x width x height). For odor control, 100 grams per 1,000 square feet. It is recommended that the PureVista remains in treatment area for approximately six (6) hours upon activation to allow for an effective chlorine dioxide gas treatment. |
| PureVista Launcher Placement | Place empty launchers equidistantly from each other in the areas that are being treated. To avoid bleaching risk, do not place directly on carpet or textile surface. |
| PureVista Launcher Readiness | Fill launchers with water to indication level. Tap water is acceptable and recommended - **DO NOT** underfill launchers. |
| Agitation of PureVista package before opening | **IMPORTANT:** Shake package and tap (upside down) on floor to loosen PureVista powder and assure proper activation of chemical. |
| Activation | **IMPORTANT:** Cut open PureVista package, remove chemical canister and discard canister lid. Place a single PureVista face up in each water-filled launcher. If personnel needs 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. |
| 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. Make sure to 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 $ClO_2$, nitrile or latex gloves, safety glasses, personal $ClO_2$ monitor. |
| Exhaust residual $ClO_2$ 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 a safe gas level of 0.1 ppm or less has been reached. |
| ~30-gallon bucket | Fill bucket 2/3 full with water; pour (one) 1 bottle of PureVista neutralizer for each 1,000 grams of PureVista. Place all PureVista containers in bucket and let sit and neutralize for at least one hour. **IMPORTANT:** no personnel should be allowed within 30 feet of the neutralizing PureVista containers unless they are wearing the recommended PPE. |
| Disposal of Launchers and PureVista containers | After neutralization process, throw plastic pieces away and dump the remaining liquid and residue down the drain. Solution is now mostly water and harmless to environment. |

**See PureVista Material Safety Data Sheet for More Information**

012519_PUR784-19