

# Solvent Systems International

## Suggested Protocol for Professional Remediator Using Bio-Oxygen®

### PREPARATION:

As a responsible/licensed Mold Remediator contractor it is always important to follow the Principles of Mold Remediation in preparing the proper Scope of Work for incorporating Bio-Oxygen® for use in a mold project. Bio-Oxygen® can be applied using a ULV MST Sprayer (preferred method) or a Hudson type sprayer (wet application)

1. Mix 2 part-solution (50/50 ratio) as necessary for area (footage) to be treated.
  - **BIO OXYGEN®** is a two-part solution (part A and part B) they are to be mixed equally and **not diluted** in any way.
  - 1 gallon of mixed solution typically treats approximately 2000 to 2500 square feet, (typical 8' ceiling construction). When using an MST Fogger.
  - In the typical Hudson type sprayer 1 gallon treats 800 to 1000 square feet.
  - Mix as necessary per square footage. For optimal performance use mixed solution within an 8-hour period.
2. Wear appropriate personal protective equipment; NIOSH approved Respirator with an OV/P100 cartridge, protective clothing, eye protection, and chemical resistant gloves consistent with Mold remediation guidelines when using Bio-Oxygen®.

### PROCEDURE:

1. Before you begin the application of any room you must first vacate the area to be treated of any humans or animals, remove any food or food contact utensils, and disable or cover all smoke and fire detection units.
2. Cover aquariums and turn off aquarium aerator pumps. Cover sensitive wood furnishings (polished table, pianos, leather goods, paintings etc.) and sensitive electronics with protective tarp or drop cloths. The **BIO OXYGEN®** solution can cause marks in polished finishes of wood furniture if applied heavily enough to cause run-off.
3. Enter property and turn HVAC fan to OFF position. (also turn off all air filtration devices (AFDs)
4. Be sure to close all windows and doors to minimize air flow.
5. Fill MST fogger with 1/2 gallon of Product A and 1/2 gallon of Product B (repeat this process as needed throughout the duration as MST fogger empties)
6. Enter property and turn MST fogger to setting 4 on the black dial near end of hose.
7. Turn fogger on and treat every room with a generous amount of BIO OXYGEN®. Be sure to treat every surface including all walls, flooring, and ceiling. Treat surface as if you were spraying paint. Depending on humidity\* stand 4-6 feet from each surface and treat generously, but not to the point of saturation (run-off) or creating visible droplets. Be sure to apply BIO OXYGEN® into each HVAC vent as you travel throughout the property.
8. Cleaning HVAC system. Remove filter and or return air end cap of air handler. Direct fog unit into area and run fan in 'fan on' setting. Time of fogging is dependent on home size. Approximately 1-2 minutes should be adequate, or until fog is seen coming out of supply registers. Then shut off HVAC system.
9. Exit property and close all doors and allow BIO OXYGEN® to settle and dissipate. **For severe contamination, a second fogging may be necessary.**

**\*the ideal ambient temperature for the decontamination process is 60°F -70°F. If this cannot be achieved, you must adjust the particulate sizes of the fog by adjusting the toggle switch on the MST ULV Fogger to ensure you are treating and reaching all surfaces properly.**

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### REACTION TIME:

10. This is dependent on humidity (temperature) levels and the severity of the mold in structure. Typical reaction time is 4-6 hours, if this is a severe mold case, reaction time is 24 hours after the initial fogging. After reaction period, HEPA Vac all surfaces to remove dead mold spores.

### RE-OCCUPANCY:

11. Upon the completion of the reaction time the property is safe for re-occupancy.

### POST TESTING:

12. For **Guaranteed** post mold remediation clearance test results; conduct testing 48 hours after conclusion of reaction time.

### HEPA Vac/ using air filtration devices:

During HEPA vac activities, AFDs should be turned on and operated for 24 hours after vacuuming work has concluded to remove dead mold spores. Quantity of AFDs should be same as utilized during remediation activities. Environmental Professional (EP) responsible for post remediation verification (PRV) should determine when air filtration devices should be turned off. Its recommended to have AFDs turned off a minimum of 24 hours prior to (EP) conducting PRV.

**Remember the main objective during remediation is to allow BIO-OXYGEN® to come in contact with all surfaces and wet out the contaminant. BIO-OXYGEN® must remain in contact with the contaminate for the required reaction time. Once complete, studies have demonstrated that the contaminate is destroyed along with the toxin and odorous affects.**

**For any questions please Contact Solvent Systems International @ 847.437.1100**