

### ClO<sub>2</sub> TRACTOR CAB BED BUG TREATMENT PROTOCOL

#### ClO<sub>2</sub> Information:

- CAUTION: ClO<sub>2</sub> gas vapors during this treatment process will be at extremely high concentrations. Remove people, plants and pets from the treatment space during the treatment period.
- Lockout/tagout procedures should be applied to limit cab and sleeper access to an authorized employee during treatment and out-of-service periods. Refer to TMC RP 543 (Guidelines for Lockout-Tagout Procedures).
- Truck interior surfaces must be dry prior to vapor treatment or permanent bleaching could take place.
- Be careful not to splash or spill liquid solution on surfaces during removal of pail from the truck following treatment. Affected surfaces could be permanently bleached.
- Do not vapor treat the truck in direct sunlight as sunlight breaks down ClO<sub>2</sub>. Pull truck into shade or under cover.
- Performing the treatment process overnight is a good option.

#### Required:

1 - 200 g ClO<sub>2</sub> kit containing 2-100 g tablets

1 - 5-gallon size pail

1 - Aerator, battery powered with air stone

1 - Signs: Treatment in process – Do not enter! Per manager

PPE: Safety glasses or face shield, P100 respirator per manufacturer directions, rubber gloves (e.g., reusable latex)

#### Process:

1. Remove infested mattress and dispose.
2. Remove all driver effects, soft goods & food stuffs.
3. Open all cabinets in truck and sleeper berth.
4. Affix treatment signs to all exterior truck entry points (i.e., door windows).
5. Tape over exterior vents with non-marring tape to seal cab.
6. Place 1 gallon of water in pail.
7. Hang aerator on the pail edge and extend the hose with air stone (weight and dispersant) to the bottom.
8. Place pail in the center of the truck on the floor.
9. Turn on aerator.
10. Open package of ClO<sub>2</sub> tablets:
  - Place (2) two 100 g tablets into pail.
11. Exit the truck, close vents, doors and windows for up to 5 hours or until vapors cease and water is clear.
12. After treatment, flush the treated space with static fresh air for up to one hour or until the odor has dissipated. Return to service time can be reduced by providing forced fresh air movement into the treated space (e.g., fan, blower, etc.)

13. Remove the treatment pail from the truck. When the solution turns clear, it can be disposed of by discharge to sanitary sewer.
14. Replace the cabin air filter and bunk air filter.
15. Return truck to service.

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#### ClO<sub>2</sub> TRACTOR CAB ODOR ELIMINATION AND DISINFECTING PROTOCOL

##### ClO<sub>2</sub> Information:

- CAUTION: ClO<sub>2</sub> gas vapors during this treatment process will be at extremely high concentrations. Remove people, plants and pets from the treatment space during the treatment period.
- Lockout/tagout procedures should be applied to limit cab and sleeper access to an authorized employee during treatment and out-of-service periods. Refer to TMC RP 543 (Guidelines for Lockout-Tagout Procedures).
- Truck interior surfaces must be dry prior to vapor treatment or permanent bleaching could take place.
- Take caution not to splash or spill liquid solution on surfaces during removal of the pail from truck following treatment. Affected surfaces could be permanently bleached.
- Do not vapor treat the truck in direct sunlight as sunlight breaks down ClO<sub>2</sub>. Pull truck into shade or under cover.
- Performing the treatment process overnight is a good option.

##### Required:

1 - ClO<sub>2</sub>, 1-100 g tablet

1 - 5-gallon size pail

1 - Aerators, battery powered with air stone

1 - Signs: Treatment in process – Do not enter! Per manager

PPE: Safety glasses or face shield, P100 respirator per manufacturer directions, rubber gloves (e.g., reusable latex)

##### Process:

1. Remove all driver effects, soft goods & food stuffs.
2. Open refrigerator and all cabinets in truck and sleeper berth.
3. Affix treatment signs to all exterior truck entry points (i.e., door windows)
4. Tape over exterior vents with non-marring tape to seal cab.
5. Place 1 gallon of water in pail
6. Hang aerator on the pail edge and extend the hose with air stone (i.e., weight and dispersant) to the bottom.
7. Place pail in the center of the truck on the floor.
8. Turn on aerator
9. Open package of ClO<sub>2</sub> tablets:
  - Place (1) one 100 g tablet into pail.

10. Exit the truck, close vents, doors & windows for up for five hours or until vapors cease and water is clear.
11. After treatment, flush the treated space with static fresh air for up to one hour or until the odor has dissipated. Return to service time can be reduced by providing forced fresh air movement into the treated space (e.g., fan, blower, etc.)
12. Remove the treatment pail from the truck. When the solution turns clear, it can be disposed of by discharge to sanitary sewer.
13. Replace the cabin air filter and bunk air filter.
14. Return truck to service.

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#### ClO<sub>2</sub> LIQUID SANITIZING AND DISINFECTING APPLICATION PROTOCOLS

##### Notes:

- Glossy surfaces may be wiped down after 10 minutes to prevent precipitate build-up
- Stored in an opaque enclosed container stored away from sunlight and extreme temperatures, the mixed solution may remain active for up to three to six months.
- ClO<sub>2</sub> test strips can be used to determine the strength & efficacy of the mixed solution
- Five-minute wet contact time is required to be effective.

##### Required:

- 1 - RTU intermediate solution container
- 1 - Label for RTU solution container; proper strength indicated
- 1 - Test Strips
- 1 - Wet fogger or sprayer
- 1 - PPE: Safety glasses, rubber gloves; respirator when ventilation is inadequate

##### Process:

1. Prepare space to be treated by removing personal affects and opening cabinets & refrigerator.
2. Clean highly soiled surfaces with appropriate cleaner(s).
3. Select the correct intermediate container size for tablet being used.  
(confirm container opening is adequate for tablet size used)
  - 20 g ClO<sub>2</sub> tablet in 128 oz. of water for 500 ppm solution, or
  - 100 g ClO<sub>2</sub> tablet in 5 gal. of water for 500 ppm solution.
4. Fill intermediate container with water to the fill point.
5. Open tablet package and drop tablet in intermediate container with water.
6. Allow tablet two to three minutes to dissolve.
7. Pour RTU solution over a test strip and confirm strength is between 250 – 500 ppm.
8. Fill wet fogger or sprayer with ClO<sub>2</sub> solution from the intermediate container.
9. Wet fog or lightly spray all surfaces ceiling to floor.
10. Provide five minutes wet contact time – no wiping or rinsing is required.
11. Allow surfaces to dry.
12. Return truck to service.