




## Cleaning and Disinfection

### Vehicles



## Overview



- Any vehicle used on infected premises or with infected animals
  - Trailers, feed trucks, milk trucks, carcass transporters
  - Heavy machinery used during response
- Can be difficult




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## Site Selection



- Adjacent to entrance
- Flat terrain
- Impermeable surface
- House components
  - C&D equipment
  - Water supply
  - Waste water containment

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## Preparation



- Area two times the largest vehicle
- Holding area for disinfectant contact time
- Berming materials to contain fluid
- Drain area by sump pump into holding tank for disposal

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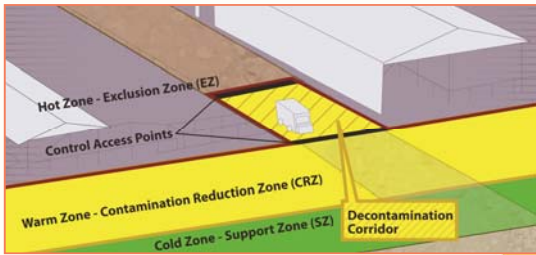
## Disinfectant Preparation

- Use according to product label
- Only EPA-registered or approved products
- Prepare fresh solutions
  - Old solutions may have reduced efficacy
- Test kits can help check concentration

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## Biosecurity Work Zones



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### Basic Protocol



- Systematic manner
- Cleaning
  - Dry clean
  - Wash
  - Rinse and Dry
- Disinfection
  - Application
  - Contact time
  - Rinse and Dry

Cleaning	Dry Clean
	Wash
	Rinse & Dry
Disinfection	Application
	Contact Time
	Rinse & Dry

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### Vehicle Exterior: Dry Clean


- Remove visible organic material
  - Use brooms, shovels, brushes
  - Don't forget wheel wells
- Dispose in biosecure manner
- Remove items from interior

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### Vehicle Exterior: Wash and Rinse

- Wash with detergent and warm water
- Presoaking or degreaser for accumulations of urine/feces
- Use high pressure sprayer with caution
- Rinse with clean, warm water
- Allow to sit 5-10 min to drip off residual water



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### Vehicle Exterior: Disinfect

- Apply disinfectant
  - Low pressure spray, scrub brushes
  - EPA-registered product
  - Non-corrosive product
  - Allow necessary contact time
  - Reapply as needed
  - Rinse with clean, warm water
- Allow vehicle to dry thoroughly

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### Vehicle Interior

- Remove non-fixed items
- Sweep away gross debris
- Wash, rinse and dry
- Wipe EPA-registered disinfectant
  - Keep surfaces "wet" during contact time
- Allow interior to dry



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### C&D Equipment


- Equipment used for C&D tasks must also be
  - Cleaned and disinfected before reuse
  - OR
  - Properly disposed of



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### Safety


- Chemical Hazards
  - Skin, eye, respiratory irritation
- Physical Hazards
  - Slips, trips, falls
  - High pressure sprayer
- Personal Protective Equipment (PPE)
  - Gloves, masks, eyes



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### Environmental Hazards

- Runoff must be avoided
  - Infectious material
  - Chemical solution
- Toxic to aquatic organisms
- Further spread of pathogens



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### References

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- USDA APHIS. FAD PRéP NAHEMS
  - Highly Pathogenic Avian Influenza Standard Operating Procedures: Cleaning and Disinfection. February 2010.
  - Foot-And-Mouth Disease. Standard Operating Procedures: Cleaning and Disinfection. February 2010.
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