

VANCARE[®]

We move body and mind

OMNI DISINFECTING TECHNOLOGY™ SPRAY CART



OPERATING & CARE INSTRUCTIONS

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Omni Disinfection Technology™ Protocol

ATTIRE FOR ROOM DISINFECTION:



Gloves, Mask and Eye Goggles.



- A. Begin by spraying light fixtures and air vents near window.**
- B. Spray all window surfaces.**
- C. Start at top and work way to Bottom using 3 foot side to side motion.**



- A. Lower window shades and spray surfaces of each one.**



- A. Spray all wall surfaces as you move from the window area towards the entry door.**
- B. Start at top and work way to bottom using 3 foot side to side motion.**



- A. Open and spray both sides of curtains.**
- B. Start at top and work down to bottom.**



A. Spray all surfaces of furniture as you come to it and underneath if possible.



A. Be sure to open and spray any cabinet areas as you pass them



A. Pay particular attention to high touch areas such as light switches and outlets when you pass them.



A. Spray all door handle areas



A. Spray all surfaces of IV Pole top to bottom.



**A. Spray all exterior surfaces of bedside table.
B. Open table and spray interior surfaces.**



- A. Place pillow at foot of bed and spray top surface.**
- B. Place pillow at head of bed with sprayed surface up.**
- C. Carefully spray all panel and lighting surfaces behind bed.**
- D. Spray all instruments and outlet areas.**
- E. Pay particular attention to the nurse call remote control.**



- A. Open drawers and spray all areas inside and outside.**
- B. Spray telephone.**



- A. Spray shower area and all fixtures.**
- B. Work from top to bottom.**
- C. Spray outside & inside of the shower curtain.**
- D. Spray from ceiling to floor all fixtures and surfaces in sink and underneath sink.**
- E. As well as towel and soap dispensers.**



- A. Spray top to bottom all ceiling and wall surfaces in bathroom around toilet.**
- B. Spray underneath and on both sides of toilet area.**
- C. Attention to all fixtures and rails**

Room Cleaning and Disinfection – Vital Oxide

Necessary Equipment: Microfiber Mop, Microfiber Cloths, Wipes, Disinfectant, At a Glance Glass Cleaner, N-95 Face Mask, Eye Protection (goggles)

<u>Daily Use – Wipes</u>	<u>Weekly Use – ESS</u>
<p>Disinfecting: Pour Full Strength Vital Oxide solution into the Kimberly Clark Wet Task Bucket. Make sure to place the Full Strength Vital Oxide Label on the outside of the Wet Task container.</p> <p>Sanitizing: Pour 12:1 Vital Oxide solution into the Kimberly Clark Wet Task Bucket. Make sure to place the 12:1 Vital Oxide Label on the outside of the Wet Task container. Dwell time is 5 minutes. Vital Oxide does not leave a film or residue.</p>	<p>Follow daily protocol for cleaning room remember to clean and remove any solid material from surfaces with Vital Oxide Wipes prior to spraying.</p>
<p>Pick up loose trash and place in waste receptacle.</p>	<p>Patients are not to remain in room, plan to spray rooms during a time when patients are known to out of their room; i.e., meals, activities, therapy, etc.</p>
<p>Empty all waste receptacles and liners into collection receptacle. Wipe waste receptacle inside and outside with a Vital Oxide wipes, allow to dry. Line waste receptacle with extra can liners.</p>	<p>Prior to spraying room clean by removing solid or organic material from surfaces including the floor using the Vital Oxide saturated Wet Task wipes.</p>
<p>Clean mirrors with Vital Oxide or At a Glance Glass Cleaner and cloth.</p>	<p>Pick up loose debris and place in waste receptacle.</p>
<p>Using Vital Oxide disinfectant wipes, work from the patient’s bed area out into the room. Wipe down over-bed and bedside tables, over-bed light fixtures, bed rails, etc. Extend this procedure to cabinets, furniture, etc. Allow all surfaces to dry.</p>	<p>Housekeeping staff will remove bed linens from beds and pillows.</p> <ul style="list-style-type: none"> • Enter room with the <i>Omni Disinfecting Technology™</i> Sprayer and close the door. Open all closet doors and table drawers, • Close window curtains, if indicated. • Pull privacy curtains out to adequately cover the material. • Cover foods or fluids, when present.
<p>Using Vital Oxide wipes, clean inside and outside of sink fixtures and any plumbing exposed underneath. Clean towel cabinet and soap dispenser. Replace paper towels and antimicrobial hand soap, as needed.</p>	<p>Wearing a N-95 face mask(obtain from SDC) and eye protection. Spray surfaces from top to bottom including wall surfaces as you move from the window area to the door. Spray surfaces of furniture as you move across the room.</p>

<p>Clean mats for patients on low beds daily.</p> <ol style="list-style-type: none"> Pick up mat, prop up along wall or bed. Sweep up debris and trash on the floor. Wipe down both sides of the mat with Vital Oxide wipes. Allow floor mats to dry. Replace mat on floor when dry. <p>(Caution: do not remove mat if patient is still in bed. Mop top of mat with Vital Oxide 12:1 dilution using microfiber mop system).</p> <p>Dust mop floor using microfiber floor system. Pick up dust with dust pan and counter brush or valet broom.</p>	<p>Turn on Sprayer, use side to side motion when spraying, (forming a Z shape), hold the wand tip approximately 2-3 feet from objects being sprayed to allow for the ‘wrap around’ affect.</p> <p>Avoid directly pointing/activating the <i>Omni Disinfecting Technology™</i> Sprayer at smokedetector/sprinkler head. When spraying near the detector/sprinkler head pause between spraying the area to allow spray to dissipate. Direct spray or over spraying in the vicinity may set off the alarms.</p> <ul style="list-style-type: none"> Spray Bathroom, including exterior and interior door surfaces, Spray inside closets then close doors, Spray light fixtures and air vents near the window. Pull window curtains if present to a closed position then spray both sides of window curtains, and reopen, Spray entire surface of bed (headboard, grab bars, footboard, frame, remote), Spray one side of pillow turn and spray opposite side.
<p>Damp mop floor with 12:1 Vital Oxide in microfiber mop system. Use a damp cloth to get soil out of corners as needed.</p>	<ul style="list-style-type: none"> Work your way from the window back to the door, and spray interior door surface. Slightly open one end of the window before exiting the room.
<p>Place <i>Wet Floor</i> signs outside of door; remove <i>Wet Floor</i> signs when floor is dry.</p>	<p>After exiting the room put sticky note on door with a designated time frame indicating when staff may re-enter room to make bed(s). Close window upon return to the room.</p> <p>Note: Nursing employees, CNAs and/or nurses will remake bed(s)</p>
<p>Clean window blinds as needed with a dry, clean cloth. Clean inside windows as needed.</p>	<p>Avoid over spraying by, (a) spraying using continuous side-to-side movements, (b) maintaining 2-3 feet of distance from tip of wand to surface(s) being sprayed, and (c) do not directly spray onto or in one area to the extent that the surface is visibly wet or that the solution runs downward from the surface being sprayed.</p>
<p>Privacy curtains that are visibly soiled should be removed for washing. Hang clean Privacy curtains when indicated.</p>	<p>NOTE: Pay particular attention to the high touch surfaces: light switch, door handles, call bell, etc.</p>

Hallway/Common Areas/Nursing Unit Spray Process

After 1st *Omni Disinfecting Technology*[™] Sprayer Application of Full Strength
 Vital Oxide use 12:1 Dilution of Vital Oxide Monthly

Omni Disinfecting Technology*[™] Sprayer Hallway/Common Areas/Nursing Unit Spray Process: Wearing a N-95 facemask and eye protection. Avoid directly pointing/activating the *Omni Disinfecting Technology*[™] Sprayer at smoke detector/sprinkler head. **When spraying near the detector/sprinkler head pause between spraying the area to allow spray to dissipate. Direct spray or over spraying in the vicinity may set off the alarms.*

1. Persons not involved in the *Omni Disinfecting Technology*[™] spraying process should be ask to leave the affected work area until the task is completed (15 – 20 minutes) and they are instructed to return.
2. Close all exterior resident room doors before spraying.
3. Refrain from opening exterior room doors after spraying the hallway until lingering smell has sufficiently dissipated, approximately 5-15 minutes.
4. Prior to spraying the Nursing Unit, slightly open file drawers, cover or remove any unopened foods/fluids in the affected work area. Then spray using the same technique described above.

NOTE: Supply individuals with a face mask (surgical mask) and protective eye wear under circumstances in which the employee or patient cannot leave the area being sprayed. Use appropriate signage to indicate that the area is temporarily unavailable. Spraying in the common areas such as the hallway may be best accomplished in the evening hours following dinner and/or on a weekend.

Dilutions Ratio

Full Strength for Disinfection and First Time Using
 12:1 for Daily Sanitization Purposes
 Use 5:1 for Carpet and Fabric Sanitization

Routine Room Cleaning and Disinfection – STERIPLEX – C. difficile Rooms

Necessary Equipment: Microfiber Mop, Microfiber Cloths, Wipes, Disinfectant, At a Glance Glass Cleaner, N-95 Face Mask, Eye Protection (goggles)

Daily Use – Wipes	Weekly Use – ESS
<p>Pour full strength activated STERIPLEX solution into the STERIPLEX wipes container, using the mixing graduated cylinder provided. Dwell time is 5 minutes. STERIPLEX does not leave a film or residue. Place expiration date on outside of STERIPLEX wipe container using a black permanent marker. Expiration date is the same date on outside of primary container after activation.</p>	<p>Follow daily protocol for cleaning room - remember to clean and remove any solid material from surfaces with STERIPLEX Wipes prior to spraying.</p>
<p>Pick up loose trash and place in waste receptacle.</p>	<p>Patients may remain in room if agree to wear face mask and eye protection. Room should be sprayed in small sections and allow for adequate rest periods to ensure the smell is tolerated by the patient. The patient may come out of room for spraying purposes if: (1) Not having uncontrolled diarrhea; (2) Able to perform hand washing with soap and water; (3) Has on clean clothes; and (4) Can tolerate being out of room in a predetermined area.</p>
<p>Empty all waste receptacles and liners into collection receptacle. Wipe waste receptacle inside and outside with a STERIPLEX wipes, allow to dry. Line waste receptacle with extra can liners.</p>	<p>Prior to spraying room clean by removing solid or organic material from surfaces including the floor using activated STERIPLEX wipes.</p>
<p>Clean mirrors with STERIPLEX or At A Glance Glass Cleaner and cloth.</p>	<p>Pick up loose debris and place in waste receptacle.</p>
<p>Using STERIPLEX disinfectant wipes, work from the patient's bed area out into the room. Wipe down over-bed and bedside tables, over-bed light fixtures, bed rails, etc. Extend this procedure to cabinets, furniture, etc. Allow all surfaces to dry.</p>	<p>Housekeeping staff will remove bed linens from beds and pillows.</p> <ul style="list-style-type: none"> • Enter room with the <i>Omni Disinfecting Technology™</i> Sprayer and close the door. Open all closet doors and table drawers, • Close window curtains, if indicated. • Pull privacy curtains out to adequately cover the material. • Cover foods or fluids, when present.
<p>Using STERIPLEX wipes, clean inside and outside of sink fixtures and any plumbing exposed underneath. Clean towel cabinet and soap dispenser. Replace paper towels and antimicrobial hand soap, as needed.</p>	<p>Wearing a N-95 face mask (obtain from SDC) and eye protection. Spray surfaces from top to bottom including wall surfaces as you move from the window area to the door. Spray surfaces of furniture as you move across the room.</p>

<p>Clean mats for patients on low beds daily.</p> <ol style="list-style-type: none"> Pick up mat, prop up along wall or bed. Sweep up debris and trash on the floor. Wipe down both sides of the mat with STERIPLEX wipes. Allow floor mats to dry. Replace mat on floor when dry. <p>(Caution: do not remove mat if patient is still in bed. Mop top of mat with full strength STERIPLEX using microfiber mop system.</p> <p>Dust mop floor using microfiber floor system. Pick up dust with dust pan and counter brush or valet broom.</p>	<p>Turn on Sprayer, use side to side motion when spraying, (forming a Z shape), hold the wand tip approximately 2-3 feet from objects being sprayed to allow for the 'wrap around' affect.</p> <p>Avoid directly pointing/activating the Omni Disinfecting Technology™ Sprayer at smoke detector/sprinkler head. When spraying near the detector/sprinkler head pause between spraying the area to allow spray to dissipate. Direct spray or over spraying in the vicinity may set off the alarms.</p> <ul style="list-style-type: none"> Spray Bathroom, including exterior and interior door surfaces, Spray inside closets then close doors, Spray light fixtures and air vents near the window. Pull window curtains if present to a closed position then spray both sides of window curtains, and reopen, Spray entire surface of bed (headboard, grab bars, footboard, frame, remote), Spray one side of pillow turn and spray opposite side.
<p>Damp mop floor with full strength STERIPLEX in microfiber mop system. Use a damp cloth to get soil out of corners as needed.</p>	<ul style="list-style-type: none"> Work your way from the window back to the door, and spray interior door surface. Slightly open one end of the window before exiting the room.
<p>Place <i>Wet Floor</i> signs outside of door; remove <i>Wet Floor</i> signs when floor is dry.</p>	<p>After exiting the room put sticky note on door with a designated time frame indicating when staff may re-enter room to make bed(s). Close window upon return to the room.</p> <p>Note: Nursing employees, CNAs and/or nurses will remake bed(s)</p>
<p>Clean window blinds as needed with a dry, clean cloth. Clean inside windows as needed.</p>	<p>Avoid over spraying by, (a) spraying using continuous side-to-side movements, (b) maintaining 2-3 feet of distance from tip of wand to surface(s) being sprayed, and (c) do not directly spray onto or in one area to the extent that the surface is visibly wet or that the solution runs downward from the surface being sprayed.</p>
<p>Privacy curtains that are visibly soiled should be removed for washing. Hang clean Privacy curtains when indicated.</p>	<p>NOTE: Pay particular attention to the high touch surfaces: light switch, door handles, call bell, etc.</p>
<p>Clean baseboards and floor edges as needed using STERIPLEX solution or wipe and scrub pad.</p>	

Omni Disinfecting Technology™ Sprayer Hallway/Common Areas/Nursing Unit
Spray Process: Wear an N95 facemask and eye protection. *Avoid directly pointing/activating the Omni Disinfecting Technology™ Sprayer at smoke detector/sprinkler head. When spraying near the detector/sprinkler head pause between spraying the area to allow spray to dissipate. Direct spray or over spraying in the vicinity may set off the alarms.*

1. Persons not involved in the *Omni disinfecting Technology™* spraying process should be ask to leave the affected work area until the task is completed (15 – 20 minutes) and they are instructed to return.
2. Close all exterior resident room doors before spraying.
3. Refrain from opening exterior room doors after spraying the hallway until lingering smell has sufficiently dissipated, approximately 5-15 minutes.
4. Prior to spraying the Nursing Unit, slightly open file drawers, cover or remove any unopened foods/fluids in the affected work area. Then spray using the same technique described above.

NOTE: Supply individuals with a face mask and protective eye wear under circumstances in which the employee or patient cannot leave the area being sprayed. Use appropriate signage to indicate that the area is temporarily unavailable. Spraying in the common areas such as the hallway may be best accomplished in the evening hours following dinner and/or on a weekend.

STERIPLEX Dos & Don'ts

- Do - Activate before use
- Do - Use full strength
- Do - Allow adequate rest periods between spraying sets of rooms to avoid intolerance of smell by housekeeping staff
- Do – Wear N-95 Facemask when spraying
- Don't - over spray or oversaturate with mop solution or wipes

Disinfection with *Omni Disinfecting Technology*[™] Sprayer MFA **Urgent/Outbreak Use Protocol – Vital Oxide for Patient Rooms/Hallways/Common Areas**

- (1) Use *Omni Disinfecting Technology*[™] Sprayer, Microfiber mop, and wipes in all rooms/common areas affected by infectious outbreak.
- (2) Spray rooms 3 times per week for 4 weeks.
- (3) Use Vital Oxide full strength saturated Wet Task wipes on days when room(s) are not being sprayed.
- (4) Use Vital Oxide – full strength to damp mop floors using the current Microfiber mop system by placing Vital Oxide into the refill container located on the mop handle.

Note: Recommend using for a period of 30 days to fully eradicate an outbreak.

Room Preparation: Notify Nursing specific to the timeframe/date when spraying will occur.

Timing is important – do not plan to spray during meal time or high volume visitor times.

1. Inform patient/RP regarding the process:
 - a. The cleaner/disinfectant used will be mist sprayed inside the room, and on days when the spraying does not occur Vital Oxide Wet Task wipes will be used,
 - b. Patients may not remain in room during the spray process, if patient is unable to leave the room use the Vital Oxide Wet Task wipes to clean and disinfect high touch surfaces.
Return patient to room 5-15 minutes after room cleaning and disinfection process is complete.
 - c. The cleaner/disinfectant when sprayed may have an unpleasant smell for some individuals, but is not noxious or toxic to skin, lungs, or eyes. The smell tends to go away in about 5-15 minutes. The window in the patient's room may be opened slightly for about 5-15 minutes to facilitate dissipation of the smell.
2. Housekeeping employees should remove bed linens/pillow cases.
3. Clean solid or organic debris from surfaces using the Vital Oxide Wet Task wipes prior to using *Omni Disinfecting* sprayer.
4. Prior to spraying the room, remove loose debris and soiling from surface of floor using Microfiber dry mop and wet mop with Vital Oxide as indicated to remove organic or solid material from the floor.
5. Enter room with the *Omni Disinfecting Technology*[™] Sprayer and close the door.
6. Open all closet doors and table drawers,
7. Close window curtains, if indicated.
8. Pull privacy curtains out to adequately cover the material.
9. Cover foods or fluids, when present.

Omni Disinfecting Technology™ Patient Room Spray Process

Wearing a N-95 face mask and eye protection. Spray surfaces from top to bottom including wall surfaces as you move from the window area to the door. Spray surfaces of furniture as you move across the room.

1. Turn on Sprayer, use side to side motion when spraying, (forming a Z shape), hold the wand tip approximately 2-3 feet from objects being sprayed to allow for the ‘wrap around’ affect. **Avoid directly pointing/activating the Omni Disinfecting Technology™ Sprayer at smoke detector/sprinkler head. When spraying near the detector/sprinkler head pause between spraying the area to allow spray to dissipate. Direct spray or over spraying in the vicinity may set off the alarms.**
 - Spray Bathroom, including exterior and interior door surfaces,
 - Spray inside closets then close doors,
 - Spray light fixtures and air vents near the window. Pull window curtains if present to a closed position then spray both sides of window curtains, and reopen,
 - Spray entire surface of bed (headboard, grab bars, footboard, frame, remote),
 - Spray one side of pillow turn and spray opposite side.
2. Work your way from the window back to the door, and spray interior door surface.
3. Slightly open one end of the window before exiting the room.
4. After exiting the room put sticky note on door with a designated time frame indicating when staff may re-enter room to make bed(s). Close window upon return to the room.

Note: Nursing employees, CNAs and/or nurses will remake bed(s)

5. **Avoid** over spraying by, (a) spraying using continuous side-to-side movements, (b) maintaining 2-3 feet of distance from tip of wand to surface(s) being sprayed, and (c) do not directly spray onto or in one area to the extent that the surface is visibly wet or that the solution runs downward from the surface being sprayed.

NOTE: Pay particular attention to the high touch surfaces: light switch, door handles, call bell, etc.

Hallway/Common Areas/Nursing Unit Spray Process

ESS Hallway/Common Areas/Nursing Unit Spray Process: Wearing a N-95 facemask and eye protection. Avoid directly pointing/activating the *Omni Disinfecting Technology™* Sprayer at smoke detector/sprinkler head. *When spraying near the detector/sprinkler head pause between spraying the area to allow spray to dissipate. Direct spray or over spraying in the vicinity may set off the alarms.*

1. Persons not involved in the *Omni disinfecting Technology™* spraying process should be ask to leave the affected work area until the task is completed (15 – 20 minutes) and they are instructed to return.
2. Close all exterior resident room doors before spraying.
3. Refrain from opening exterior room doors after spraying the hallway until lingering smell has sufficiently dissipated, approximately 5-15 minutes.
4. Prior to spraying the Nursing Unit, slightly open file drawers, cover or remove any unopened foods/fluids in the affected work area. Then spray using the same technique described above.

NOTE: Supply individuals with a face mask and protective eye wear under circumstances in which the employee or patient cannot leave the affected area being sprayed. Use appropriate signage to indicate that the area is temporarily unavailable. Spraying in the common areas such as the hallway may be best accomplished in the evening hours following dinner and on a weekend.

Vital Oxide Mop Solution

Vital Oxide full strength is placed in the fluid chamber located on the outside of the mop handle. Do not oversaturate the floor and begin mopping small sections of the room.

Vital Oxide Wet Task Wipes

Pour full strength Vital Oxide solution over dry Wet Task wipes. Place expiration date on the outside of the container, using a black permanent marker. The expiration date is the same as the expiration date indicated on the Vital Oxide container.

Disinfection with *Omni Disinfecting Technology*[™] Sprayer MFA **Urgent/Outbreak Use Protocol – STERIPLEX** for Patient Rooms/Hallways/Common Areas

- (1) Use *Omni Disinfecting Technology*[™] Sprayer, Microfiber mop, and wipes in all rooms on Transmission-based Precautions for *C. difficile*.
- (2) Spray rooms 3 times per week for 4 weeks.
- (3) Use STERIPLEX wipes on days when room(s) are not being sprayed.
- (4) Use STERIPLEX – full strength to damp mop floors using the current Microfiber mop system by placing STERIPLEX into the refill container located on the mop handle.

Note: Recommend using for a period of 30 days to eliminate C. difficile spores potentially present in patient rooms.

Room Preparation: Notify Nursing specific to the timeframe/date when spraying will occur.

Timing is important – do not plan to spray during meal time or high volume visitor times.

1. Inform patient/RP regarding the process:
 - a. The cleaner/disinfectant used will be mist sprayed inside the room, and on days when the spraying does not occur STERIPLEX wipes will be used,
 - b. To spray with the patient in the room: Will require that the patient wear eye protection and a surgical face mask during the spraying process. If the patient is unable to wear eye protection or a face mask, the patient may be eligible to sit outside the room in a designated area during the spray process when the following conditions are present:
 - Patient is not having **uncontrolled** diarrhea episodes,
 - Is wearing clean clothes, and
 - Hands have been washed with soap and water prior to leaving room.

Return patient to room 5-15 minutes after room cleaning and disinfection process is complete.

The "designated area" where the patient would wait until the *Omni Disinfecting Technology*[™] spray protocol with STERIPLEX is completed, should be thoroughly cleaned with STERIPLEX wipes and the entire room and furniture be ESS sprayed with STERIPLEX following the patients return to their room. The floor between the patient room and the "designated area" should also be wet mopped with STERIPLEX using a microfiber wet-mop.

 - c.
 - d. When patient is in room during the spray process: Spray small sections of the room with rest periods provided to ensure the patient is doing okay with the smell, this should take about 15-20 minutes.
 - e. The cleaner/disinfectant when sprayed may have an unpleasant smell for some individuals. The disinfectant has a vinegar/peroxide type of smell but is not noxious or toxic to skin, lungs, or eyes; however anytime a product is being sprayed individuals present in the room are required to wear a mask and eye protection as an added layer of protection. The smell tends to go away in about 5-15 minutes. The window in the patient's room may be opened slightly for about 5-15 minutes to facilitate dissipation of the smell.
 - f. The patient, if lying in bed will be asked to sit in a chair (one that has previously been sprayed). The patient's ability to sit in a chair will depend on the health status or health limitation(s) of the patient(s). Sitting in a chair will allow the bed mattress and frame to be adequately disinfected by allowing charged particles to attach to different parts of the bed such as the mattress and bed frame.
2. Housekeeping employees should remove bed linens/pillow cases.
3. Clean solid or organic debris from surfaces using the STERIPLEX wipes prior to using *Omni Disinfecting Technology*[™] sprayer.

4. Prior to spraying the room, remove loose debris and soiling from surface of floor using Microfiber dry mop and wet mop with STERIPLEX as indicated to remove organic or solid material from the floor.
5. Enter room with the *Omni Disinfecting Technology*[™] Sprayer and close the door.
6. Open all closet doors and table drawers,
7. Close window curtains, if indicated.
8. Pull privacy curtains out to adequately cover the material.
9. Cover foods or fluids, when present.
- 10.

***Omni Disinfecting Technology*[™] Sprayer Patient Room Spray Process**

Wearing a N-95 face mask(get from SDC) and eye protection. Spray surfaces from top to bottom including wall surfaces as you move from the window area to the door. Spray surfaces of furniture as you move across the room.

1. Turn on Sprayer, use side to side motion when spraying, (forming a Z shape), hold the wand tip approximately 2-3 feet from objects being sprayed to allow for the ‘wrap around’ affect. **Avoid directly pointing/activating the *Omni Disinfecting Technology*[™] Sprayer at smoke detector/sprinkler head. When spraying near the detector/sprinkler head pause between spraying the area to allow spray to dissipate. Direct spray or over spraying in the vicinity may set off the alarms.**
 - Spray Bathroom, including exterior and interior door surfaces,
 - Spray inside closets then close doors,
 - Spray light fixtures and air vents near the window. Pull window curtains if present to a closed position then spray both sides of window curtains, and reopen,
 - Spray entire surface of bed (headboard, grab bars, footboard, frame, remote),
 - Spray one side of pillow turn and spray opposite side.
2. Work your way from the window back to the door, and spray interior door surface.
3. Slightly open one end of the window before exiting the room.
4. After exiting the room put sticky note on door with a designated time frame indicating when staff may re-enter room to make bed(s). Close window upon return to the room.

Note: Nursing employees, CNAs and/or nurses will remake bed(s)
5. **Avoid** over spraying by, (a) spraying using continuous side-to-side movements, (b) maintaining 2-3 feet of distance from tip of wand to surface(s) being sprayed, and (c) do not directly spray onto or in one area to the extent that the surface is visibly wet or that the solution runs downward from the surface being sprayed.

NOTE: Pay particular attention to the high touch surfaces: light switch, door handles, call bell, etc.

Hallway/Common Areas/Nursing Unit Spray Process

Omni Disinfecting Technology™ Spray Hallway/Common Areas/Nursing Unit Spray Process: Wearing a N-95 facemask and eye protection. *Avoid directly pointing/activating the Omni Disinfecting Technology™ Sprayer at smoke detector/sprinkler head. When spraying near the detector/sprinkler head pause between spraying the area to allow spray to dissipate. Direct spray or over spraying in the vicinity may set off the alarms.*

1. Persons not involved in the *Omni Disinfecting Technology™* spraying process should be ask to leave the affected work area until the task is completed (15 – 20 minutes) and they are instructed to return.
2. Close all exterior resident room doors before spraying.
3. Refrain from opening exterior room doors after spraying the hallway until lingering smell has sufficiently dissipated, approximately 5-15 minutes.
4. Prior to spraying the Nursing Unit, slightly open file drawers, cover or remove any unopened foods/fluids in the affected work area. Then spray using the same technique described above.

NOTE: Supply individuals with a face mask and protective eye wear under circumstances in which the employee or patient cannot leave the affected area being sprayed. Use appropriate signage to indicate that the area is temporarily unavailable. Spraying in the common areas such as the hallway may be best accomplished in the evening hours following dinner and on a weekend.

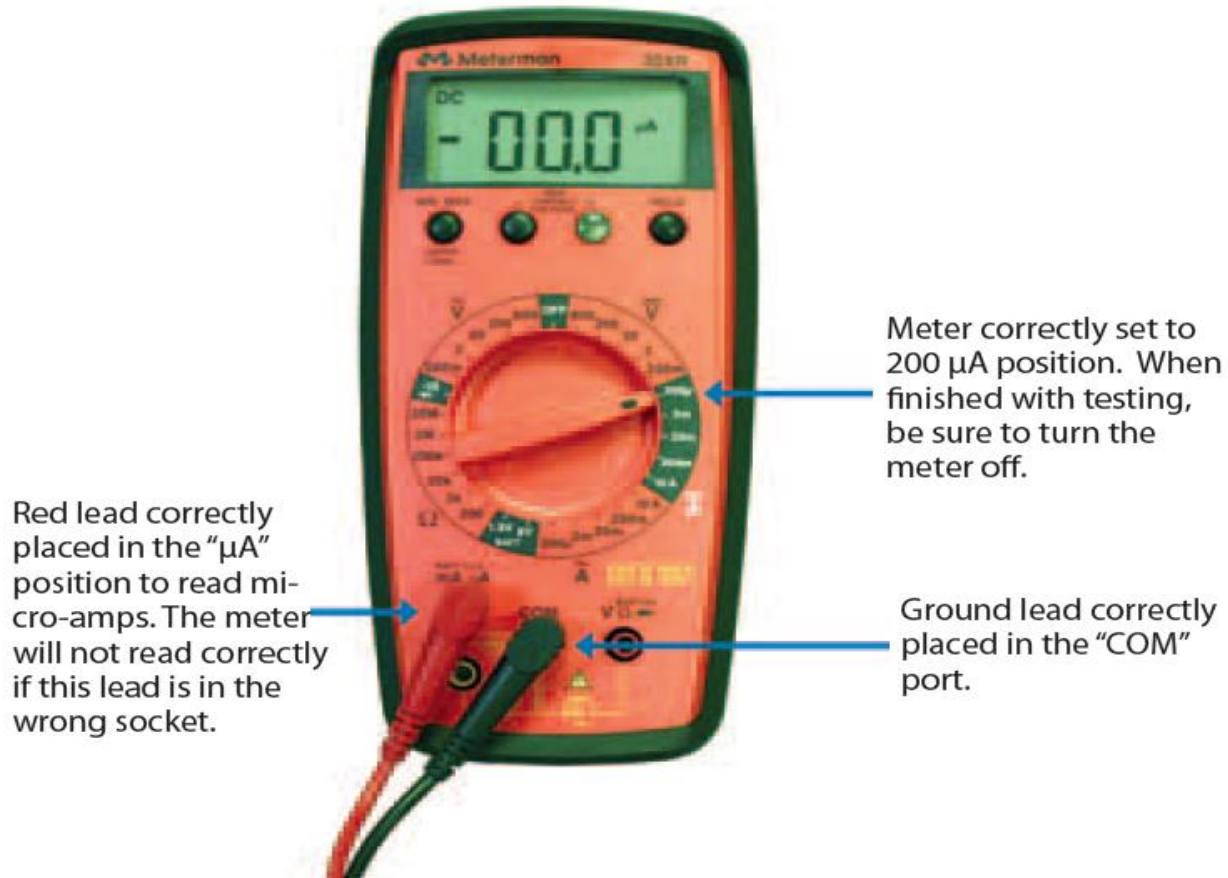
STERIPLEX Mop Solution

STERIPLEX is activated and solution is placed in the fluid chamber located on the outside of the mop handle. Do not oversaturate the floor and begin mopping small sections of the room.

STERIPLEX WIPES

Activate STERIPLEX, then using measure cup pour over dry STERIPLEX wipes. Place expiration date on the outside of the container, using a black permanent marker. The expiration date is the same as the expiration date indicated on the mixing container of STERIPLEX.

Checking the *Omni Disinfecting Technology*[™] Charge



Test the nozzle for charging using the diagram above to ensure that the meter is set correctly to measure micro-amps (μA). To test the nozzles, turn the meter on and set it to the 200 μA range. Ground the black lead against the spray bar or pinch the metal probe between the forefinger and thumb of your hand. Insert the paddle on the red lead into the spray stream about 1 inch from the outlet of the nozzle. Read the charge on the meter. Clean any nozzles that are below 6 μA

Each nozzle's measured spray-cloud current should be in excess of -10 μA dc.

READ AND FOLLOW ALL INSTRUCTIONS

- Use this unit only as it's intended use for Disinfecting and sanitizing
- **Only use Vital Oxide & Steriplex Disinfectant in this unit**
- (Any other disinfectant or chemicals used in this machine may cause serious damage to skin, eyes and lungs)

SAFTEY AND OPERATION:

- Wear protective safety glasses and face mask **(Wear Duck Facemask when spraying)**
- Pour Vital Oxide in properly labeled tank
- Pour Steriplex in properly labeled tank
- Plug retractable power supply cord into 110 AC outlet
- Undo Blue hose and gun and point nozzle towards desired area
- Turn on power supply
- Spray designated area for disinfecting and sanitizing
- Turn off power supply
- UN plug power supply & retract cord
- Wind up Blue hose
- Place gun in locking clips with and nozzle pointed down

SWITCHING TANKS

- Turn existing tank in use to off position
- Empty existing chemical in line and gun by spraying with both tanks off until gun is only spraying air
- Turn on desired tank mixture and spray desired area

CLEAN & CHARGE SPRAY GUN DAILY

- Turn both Steriplex & Vital Oxide chemical tanks to off position
- Turn on water tank and spray through gun for 60 seconds
- Turn off water tank and spray through gun until gun is empty
- Plug retractable power cord into 110 AC outlet
- Take charging plug and insert into handle of spray gun
- Spray gun is fully charged (3-4 HRS for full Charge)

January 31, 2011

Vital Oxide

Section 1: Product and Company Identification

Product Name	Vital Oxide	Aqueous Oxidant												
Manufacturer/Distributor	Vital Solutions, LLC PO Box 9922 West Palm Beach, FL 33404	<table border="1"> <tr><td>H</td><td>0</td><td>Blue</td></tr> <tr><td>F</td><td>0</td><td>Red</td></tr> <tr><td>R</td><td>0</td><td>Yellow</td></tr> <tr><td>PE</td><td>--</td><td>White</td></tr> </table>	H	0	Blue	F	0	Red	R	0	Yellow	PE	--	White
H	0		Blue											
F	0	Red												
R	0	Yellow												
PE	--	White												
Phone Numbers														
Product Information	(561) 848-1717													
Medical Emergency	(800) 222-1222													

Section 2: Composition/ Information on Ingredients

Ingredients	CAS Number	Wt %
n-Alkyl Dimethyl Benzyl Ammonium Chloride	68391-01-5	0.125
n-Alkyl Dimethyl Ethylbenzyl Ammonium Chloride	85409-23-0	0.125
Inert Ingredients	Mixture	99.55

At these concentrations none of the ingredients are known to pose any hazards to human health.

Section 3: Hazards Identification

Emergency Overview

Colorless liquid with mild fresh odor. Avoid contact with eyes. Keep out of reach of children.

HMIS Rating: **Health:** 0 **Flammability:** 0 **Reactivity:** 0 **PPE:** None

Potential Health Effects

Eye Contact: Eye contact may cause mild eye irritation with discomfort.

Skin Contact: Does NOT cause skin irritation and the product is NOT skin sensitizer.

Inhalation: Does NOT cause any respiratory irritation. If consumer product accidentally contacts strong acids in restricted ventilation area, avoid breathing the vapors and allow adequate time for the vapors to disperse before re-entering the restricted area.

Ingestion: Non-toxic

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, and ACGIH as carcinogens.

Section 4: First Aid Measures**Inhalation**

Does NOT cause any respiratory irritation. If consumer product accidentally contacts strong acids in restricted ventilation area, avoid breathing the vapors, and allow adequate time for the vapors to disperse before re-entering the restricted area.

Skin Contact

Does NOT cause skin irritation.

Eye Contact

In case of contact, flush eyes with plenty of water.

Ingestion

Non-toxic. Give a glass of water.

Section 5: Fire Fighting Measures**Flammable Properties:**

Flash Point: Not Available (Non Flammable)

Burn Rate: Unknown

Flammable Limits:

Lower Flammable Limit: Not Established

Upper Flammable Limit: Not Established

Flammability Classification: Non-Flammable liquid

Autoignition Temperature: Not Established

Hazardous Combustion Products: Thermal or other decomposition may yield chlorine dioxide or chlorine.

Extinguishing Media: N/A (Non-Flammable liquid)

Additional Considerations: None

FIRE FIGHTING INSTRUCTIONS: Non-Flammable liquid

NFPA Rating:

Health: 1

Flammability: 0

Reactivity: 0

PPE: B

Section 6: Accidental Release Measures**Spill Clean-Up**

No special clean-up measures are required for the consumer product. To avoid the possibility of "bleaching" the spill should be absorbed with paper towels, and the area rinsed with clean water.

Accidental Release Measures

Spills are slippery and should be cleaned up promptly.

Section 7: Handling and Storage

Handling: Keep away from heat and strong acids. Do not ingest. Keep container closed. Use only with adequate ventilation.

Storage: Keep container tightly closed and sealed until ready for use. Keep container in a well-ventilated place. Do not store above 120°F or near fire or open flame. Store large quantities in buildings to comply with OSHA 1910.106. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers. Keep out of reach of children.

Incompatible materials: Strong acids.

Special Packaging Materials: None

Section 8: Exposure Control/ Personal Protection

Engineering Controls: Use in adequately ventilated areas.

Personal Protective Equipment:

Eye/Face Protection: Not required for consumer product.

Skin Protection: Not required for consumer product.

Respirators: None required for normal use. If consumer product accidentally contacts strong acids in restricted ventilation area, avoid breathing the vapors, and allow adequate time for the vapors to disperse before re-entering the restricted area.

Exposure Limits:

Oxychlorine Compounds:

PEL (OSHA): Not available
TLV (ACGIH): Not available

n-Alkyl Dimethyl Benzyl Ammonium Chloride:

PEL (OSHA): Not available
TLV (ACGIH): Not available

n-Alkyl Dimethyl Ethylbenzyl Ammonium Chloride:

PEL (OSHA): Not available
TLV (ACGIH): Not available

Section 9: Physical and Chemical Properties

Appearance:	Colorless Liquid	Odor:	Mild-Fresh
Physical State:	Liquid	pH:	8 - 9
Boiling Point (°F):	212	Solubility in Water:	100%
Freezing Point (°F):	32	Vapor Pressure (mm Hg):	Not Available
Volatile Organic Compounds (VOC):	None	Evaporation Rate:	Less than Ether
Specific Gravity:	1.008 @ 68°F (20°C)	Density (lb/gal):	8.40 @ 68°F (20°C)

Section 10: Stability and Reactivity

Chemical Stability: The product is stable.

Incompatibility with other Materials: Strong acids.

Conditions to avoid: Contact with strong acids

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Thermal or other decomposition may yield chlorine dioxide or chlorine.

Section 11: Toxicological Information

TOXICITY TESTING – ACUTE Inhalation – Studies with Wistar Albino rats exposed to a respirable aerosol made from a solution of Vital Oxide at a level of 2.08 mg/l for four hours resulted in no deaths and no abnormal necropsy observations. **Eye Contact** – Studies with New Zealand white rabbits showed this product is a very mild ocular irritant; mild conjunctival irritation was observed, but cleared within 72 hours. **Skin Contact** – Study of dermal toxicity in New Zealand white rabbits showed the product to be non-toxic: Dermal LD₅₀> 5,000 mg/kg of body weight; Study of dermal irritation in New Zealand white rabbits showed the product is not a dermal irritant. In Dermal Sensitization studies, Vital Oxide was determined not to be a sensitizer. **Swallowing** - Acute oral toxicity in albino rats: Non-toxic LD₅₀>5,000 mg/kg of body weight.

EPA TOXICITY RATING – IV (For all exposure routes except for mild eye irritation) This is the lowest category on the scale and is designed for substances that are the least hazardous.

Section 12: Ecological Information

Environmental Hazards: Not data available.

Environmental Fate: Not data available.

Section 13: Disposal Considerations

Waste Disposal: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations.

Section 14: Transport Information

Shipping Information: Not regulated by DOT, IMO/IMDG and IATA/ICAO for ground, air or ocean shipments.

Section 15: Regulatory Information

U.S. Federal Regulations:

TSCA: All components appear in TSCA Inventory

OSHA: Refer to Section 8 for exposure limits.

CERCLA SARA Hazard Category:

Section 311 and 312: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: None

Section 313: This product contains following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None

State regulations:

State Right to Know information is not provided.

California prop. 65 (no significant risk level): None

International Regulations:

Canadian WHMIS: Not controlled

Canadian Environmental Protection Act (CEPA): Additional information available upon request.

EU Regulations: Additional information available upon request.

Section 16: Other Information

The information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Vital Technologies, Inc. The Data on this sheet related only to the specific material designed herein. Vital Technologies, Inc. assumes no legal responsibility for the use or reliance on this data.

End of MSDS



1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STERIPLEX® SD Activated Formula

GENERAL USE: STERIPLEX® SD is a two-part system and when Part A and Part B are combined, create an effective *C. diff* Sporicide, Broad Spectrum Disinfectant, Sanitizer, Cleaner, Deodorizer, and DNA Decontaminant.

MANUFACTURER: SBIOMED LLC, 1272 South 1380 West, Orem, UT 84058, PHONE: 1 (888) 234-6142

DATE REVISED: 05-03-2012

This version replaces all previous versions.

EMERGENCY TELEPHONE NUMBERS

Poison Center call: (800) 222-1222

2. COMPOSITION / INFORMATION ON INGREDIENTS

The combined ingredients of this product at their given percentages are not considered hazardous to your health.

Chemical Name	CAS#	Wt. %
Silver (Elemental)	7440-22-4	0.015
Ethanol	64-17-5	10.000
Hydrogen Peroxide	7722-84-1	0.020
Peroxyacetic Acid	79-21-0	0.150
Acetic Acid	64-19-7	0.150
Inert Food Grade Ingredients	Proprietary	0.075
Water	7732-18-5	89.590

STERIPLEX SD's Patented Peroxyacetic Acid Conversion Process

STERIPLEX SD's patented, two-part formulation causes rapid and significant changes to the traditionally aggressive chemical characteristics of the peroxyacetic acid or "PAA" upon Activation which occurs by simply combining Part B (the "PAA" activator component) with Part A. Specifically:

- ▲ The hydrogen peroxide (H2O2) component of the PAA is rapidly converted into water and oxygen within minutes of Activation, and ceases to exist with zero VOC emission; and
- ▲ The dramatically altered chemical form of the PAA post-Activation, is
 - Non-corrosive to the skin and eyes, which qualifies the STERIPLEX SD post-Activated formula for a remarkable health and safety rating of '0' (HMIS = 0) that exhibits no oral or inhalation toxicities, and only mild irritation when sprayed directly into the eyes (no permanent damage to the eyes) as validated in STERIPLEX Activated Formula's EPA-registration toxicity studies; and is
 - Non-oxidizing to materials and is safe for direct application on stainless steels, plastics and polymers exhibiting excellent inhibition corrosion rates as validated in the STERIPLEX Activated Formula's independent materials compatibility corrosion studies.
- ▲ STERIPLEX SD's Activated Formula is:
 - Non-Corrosive
 - Non-Fuming, Non-Toxic to Inhale
 - Not a Skin Irritant or Sensitizer



STERIPLEX SD is effective and for use as directed on hard, non-porous surfaces: stainless steel including titanium-coated and medical grade stainless steel, chrome, plastic (vinyl, LD and HD polyethylene, and polypropylene), silicone rubber, metal, Formica, medical tubing, vinyl rubber, laminated surfaces, glass, acrylic plastic, Plexiglas®, sealed fiberglass, glazed ceramic, glazed enamel, glazed porcelain, Corian®, sealed granite, sealed limestone, sealed marble, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, and sealed finished woodwork.

STERIPLEX SD is effective and for use as directed on hard, non-porous, water sensitive equipment surfaces: instruments, sealed electronics, computer keyboards, cell phones, telephones, appliances, remote controls, light switch covers and other hard, non-porous water sensitive equipment and surfaces listed on this label

In limited situations on certain surfaces and generally only if STERIPLEX SD is applied in excess or if there is repeated oversaturation/application of the product, a light food grade residual may occur over time. If this should occur, wipe with a wet cloth or towel to remove.

3. PHYSICAL AND CHEMICAL PROPERTIES

- ▲ **SCENT:** Mild
- ▲ **APPEARANCE:** Clear
- ▲ **BOILING POINT:** 86°C (187°F) at 630 mm Hg
- ▲ **DENSITY / WEIGHT PER VOLUME:** 1.044 g/ml or 8.7 lbs/gal
- ▲ **EVAPORATION RATE:** Above 1 (Butyl Acetate = 1)
- ▲ **OXIDIZING PROPERTIES:** None
- ▲ **pH:** 4.5
- ▲ **SOLUBILITY IN WATER:** (% by wt. @ 25°C / 77°F): 100
- ▲ **SPECIFIC GRAVITY:** (H₂O=1): 1.06 @ 20°C
- ▲ **FREEZE POINT:** -8°C (17.6°F)

4. TOXICOLOGICAL INFORMATION

- ▲ **TARGET ORGANS:** Eyes, skin, nose, throat, lungs
- ▲ **EYE EFFECTS:** Moderate, temporary eye irritation
- ▲ **SKIN EFFECTS:** Non-irritating
- ▲ **DERMAL LD50:** No mortalities or abnormalities > 5000 mg/kg
- ▲ **ORAL LD50:** No mortalities or abnormalities > 5000 mg/kg
- ▲ **INHALATION LC50:** Inhalation toxicity > 2.01 mg/L
- ▲ **CARCINOGENICITY:** No carcinogenic effect in rats or mice.

▲ **HMIS**

Health 0 **Flammability 0** **Physical Hazard 0** Personal Protection (PPE) A

Protection = A (Safety glasses)

HMIS = Hazardous Materials Identification System Degree of Hazard Code:

4 = Severe 3 = Serious 2 = Moderate 1 = Slight 0 = Minimal

5. FIRST AID MEASURES

- ▲ **EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or physician for treatment advice.



6. FIRE FIGHTING MEASURES

- ▲ **FLAMMABLE LIMITS:** Not available
- ▲ **SENSITIVITY TO IMPACT:** Not available
- ▲ **SENSITIVITY TO STATIC DISCHARGE:** Not available

FIRE FIGHTING INFORMATION

- ▲ **Suitable extinguishing media:** Use media appropriate for the surrounding fire.
- ▲ **Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

▲ **NFPA**

Health 0 Flammability 0 Reactivity 0

NFPA = National Fire Protection Association

Degree of Hazard Code:

4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant

7. ACCIDENTAL RELEASE MEASURES

- ▲ **RELEASE NOTES:** Control run off and isolate discharged material for proper disposal.

8. HANDLING AND STORAGE

- ▲ **HANDLING:** Special ventilation not required.
- ▲ **STORAGE:** Store in a dry, cool area and away from direct sunlight. Do not double stack pallets. Use first in, first out storage system.

9. EXPOSURE CONTROLS / PERSONAL PROTECTION

▲ **EXPOSURE LIMITS**

Chemical Name	ACGIH TLV	OSHA PEL	ACGIH STEL	ACGIH TWA
Silver (Elemental)	.1 mg/m ³	.01 mg/m ³	–	.1 mg/m ³
Acetic Acid	10 ppm	10 ppm	15 ppm	10 ppm
Ethanol	1000 ppm	1000 ppm	1000 ppm	1000 ppm
Hydrogen Peroxide	1 ppm	1 ppm	–	1 ppm

10. PERSONAL PROTECTIVE EQUIPMENT

- ▲ **EYES AND FACE:** Protective eyewear is recommended.
- ▲ **RESPIRATORY:** When used as directed, respiratory protection is not required.
- ▲ **PROTECTIVE CLOTHING:** Not required.
- ▲ **GLOVES:** Not required.

11. STABILITY AND REACTIVITY

- ▲ **STABILITY:** Stable
- ▲ **HAZARDOUS POLYMERIZATION:** Will not occur
- ▲ **HAZARDOUS DECOMPOSITION PRODUCTS:** None

12. ECOLOGICAL INFORMATION

- ▲ **ECOTOXICOLOGICAL INFORMATION:** This product decomposes naturally. Peracetic acid is completely miscible with water. Aqueous solutions of peracetic acid hydrolyze to acetic acid and hydrogen peroxide. When this product contacts soil the peracetic acid and hydrogen peroxide are completely decomposed to water, acetic acid and oxygen within 20 minutes. This decomposition is accelerated by the naturally occurring transition metal components in the soil.

13. DISPOSAL CONSIDERATIONS

- ▲ **DISPOSAL METHOD:** Discharge into a suitable treatment system in accordance with local, state and federal governmental agencies.

14. TRANSPORT INFORMATION

▲ **U.S. DEPARTMENT OF TRANSPORTATION (DOT)**

- ▲ **Domestic (Land, D.O.T.)**
- ▲ **Proper Shipping Name:** Not regulated (not classified as a Dangerous Goods material)
- ▲ **Hazard Class:** Not applicable
- ▲ **UN/NA:** Not applicable
- ▲ **Packing Group:** Not applicable

▲ **International (Water, I.M.O.)**

- ▲ **Proper Shipping Name:** Not regulated (not classified as a Dangerous Goods material)
- ▲ **Hazard Class:** Not applicable
- ▲ **UN/NA:** Not applicable
- ▲ **Packing Group:** Not applicable

▲ **International (Air, I.C.A.O.)**

- ▲ **Proper Shipping Name:** Not regulated (not classified as a Dangerous Goods material)
- ▲ **Hazard Class:** Not applicable
- ▲ **UN/NA:** Not applicable
- ▲ **Packing Group:** Not applicable

15. REGULATORY INFORMATION

International Inventory Status:

Ingredient	CAS#	Europe (EINECS/ELINCS)	Canada (DSL)	Australia (AICS)	Japan (MITI)	Korea (TCCL)	Philippines (PICCS)	China (IECSC)	New Zealand (NZIoC)
Silver	7440-22-4	YES	YES	YES	NO	YES	YES	YES	YES
Hydrogen Peroxide	7722-84-1	YES	YES	YES	YES	YES	YES	YES	YES
Peroxyacetic Acid	79-21-0	YES	YES	YES	YES	YES	YES	YES	YES
Acetic Acid	64-19-7	YES	YES	YES	YES	YES	YES	YES	YES
Ethanol	64-17-5	YES	YES	YES	YES	YES	YES	YES	YES

United States

Ingredient	CAS#	OSHA	CAA	CWA	RCRA	SARA 302	SARA 313	TSCA
Hydrogen Peroxide	7722-84-1	YES	NO	NO	NO	NO	NO	NO
Peroxyacetic Acid	79-21-0	YES	YES	NO	NO	YES	YES	NO
Acetic Acid	64-19-7	YES	NO	YES	NO	NO	NO	NO
Ethanol	64-17-5	YES	NO	NO	NO	NO	NO	YES
Water	7732-18-5	YES	NO	NO	NO	NO	NO	YES

▲ **16. Further information**

Data for the production of the safety data sheet from the studies available and from the literature. Further information about the characteristics of the product can be found in the product code of practice or in the product brochure .

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.