CLAIMS

What is claimed:

1. A hazardous drug deactivation wipe kit, comprising:

a first pouch having a closing one-way fill valve coupled to an end thereof, the first pouch having a first compartment containing a dry wipe, a second compartment having a disinfectant filled to said second compartment through said one-way fill valve following irradiation of the first pouch, and a frangible seal formed between the first compartment and the second compartment whereby the frangible seal can be opened so that the dry wipe is saturated with disinfectant following disinfectant being filled into said second compartment, and wherein said first compartment having an access with a closed position that denies access to the saturated wipe in said first compartment and an open position that permits access to the saturated wipe in said first compartment;

a second pouch containing a wipe saturated in thiosulfate solution; and

a third pouch containing a wipe saturated in isopropyl alcohol solution,

wherein the deactivation wipe kit is configured for use in a controlled environment to deactivate hazardous drugs on a work surface, and wherein a notch or perforation is located at the first compartment to access the wipe contained in the first compartment.

2. The deactivation wipe kit of claim 1, wherein the disinfectant comprises a hypochlorite solution that is a 5.25% sodium hypochlorite solution.

3. The deactivation wipe kit of any of the previous claims, wherein the thiosulfate solution is a 2% sodium thiosulfate solution.

4. The deactivation wipe kit of any of the previous claims, wherein the isopropyl alcohol solution is a 70% isopropyl alcohol solution.

5. The deactivation wipe kit of any of the previous claims, wherein the wipe in the first pouch is formed of 100% polypropylene.

6. The deactivation wipe kit of any of the previous claims, wherein the wipe in the second pouch and the wipe in the third pouch is formed of 100% polyester.

7. The deactivation wipe kit of any of the previous claims, wherein each of the first pouch, the second pouch, and the third pouch are formed of a multi-layered structure comprised of coated polyester, low density polyethylene, aluminum foil, hydroxypropylcellulose, linear low density polyethylene, or combinations thereof.

8. The deactivation wipe kit of any of the previous claims, wherein each of the first pouch, the second pouch, and the third pouch comprise a perforation adjacent to an end thereof.

9. The deactivation wipe kit of any of the previous claims, wherein the one-way fill valve is configured to permit the first pouch to be filled into the first compartment with the disinfectant after the wipe has already been sealed in the first compartment, said one-way fill valve closes to prevent the disinfectant from escaping through said one-way fill valve.

10. A method of preparing a deactivation wipe kit, comprising the steps of:

(a) placing a dry wipe in a first compartment of a first pouch having a closing one-way fill valve coupled to an end of a second compartment of the first pouch, wherein an access opening is located at the first compartment;

(b) placing a thiosulfate-saturated wipe in a second pouch;

(c) placing an isopropyl alcohol-saturated wipe in a third pouch;

(d) hermetically sealing the first pouch, the second pouch, and the third pouch to respectively form a first closed pouch, second closed pouch and third closed pouch;

(e) placing the first closed pouch, the second closed pouch, and the third closed pouch in a plastic bag and hermetically sealing the plastic bag to form a closed pouch enclosure;

(f) placing the closed pouch enclosure in a container and irradiation sterilizing the

container and its contents to form a sterilized closed container;

(g) transferring the sterilized closed container to a controlled environment and removing the first closed pouch, the second closed pouch, and third closed pouch from the closed pouch enclosure;

(h) aseptically filling the second compartment of the first closed pouch with sterile hypochlorite solution via the one-way valve to saturate the dry wipe with hypochlorite solution.

11. The method of preparing a deactivation wipe kit according to claim 10, wherein step (d) and/or step (e) are performed by heat sealing the first pouch, the second pouch, the third pouch and/or the plastic bag.

12. The method of preparing a deactivation wipe kit according to any one of claims 10 or 11, wherein steps (a)-(c) may be formed sequentially or simultaneously.

13. The method of preparing a deactivation wipe kit according to any of claims 10-12, wherein the step (e) further comprising placing the first closed pouch, the second closed pouch, and the third closed pouch in a first plastic bag and hermetically sealing the first plastic bag to form a first closed pouch enclosure, and placing the first closed pouch enclosure in a second plastic bag to form a second closed pouch enclosure.

14. The method of preparing a deactivation wipe kit according to any of claims 10-13, wherein step (h) forms a first closed filled pouch, and further comprising the step of placing the first closed filled pouch, the second closed pouch and the third closed pouch in a final plastic bag and hermetically sealing the final plastic bag to form a final closed pouch enclosure.

15. The method of preparing a deactivation wipe kit according to claim 14, further comprising the step of placing the final closed pouch enclosure in a liner and a container.

16. The method of preparing a deactivation wipe kit according to any of claims 10-

15, wherein said step of irradiation sterilizing sterilizes the first pouch, second pouch, third pouch, dry wipe, thiosulfate-saturated wipe, isopropyl alcohol-saturated wipe, plastic bag, and container.

17. A method of using the deactivation wipe kit according to any of claims 1-9, comprising the steps of:

(a) removing the wipe from the first pouch and applying the wipe to a work surface contaminated with at least one hazardous drug;

(b) removing the wipe from the second pouch and applying the wipe to the work surface;

(c) removing the wipe from the third pouch and applying the wipe to the work surface,

wherein step (a) deactivates the hazardous drug, step (b) decontaminates the work surface, and step (c) disinfects and cleans the work surface.

18. The method of claim 17, wherein steps (a)-(c) are performed in sequential order.

19. The method of claims 17 or 18, wherein each of the wipes are removed from the first pouch, the second pouch, and the third pouch, respectively, by tearing a perforation in each of the first pouch, the second pouch, and the third pouch.

20. A wipe pouch, comprising:

a first compartment containing a dry wipe;

a second compartment having a one-way filling valve coupled thereto, wherein an access opening is located at the first compartment;

a notch or perforation at said first compartment, said notch or perforation having a closed position that denies access to the saturated wipe in said first compartment and an open position that permits access to the saturated wipe in said first compartment; and

a coupling assembly coupling the first compartment to the second compartment and

having a closed configuration in which the first compartment does not communicate with the second compartment, and an opened configuration in which the first compartment communicates with the second compartment.

21. The pouch of claim 20, wherein said coupling assembly comprises a frangible seal.

22. The pouch of any of claims 20-21, wherein the one-way filling valve is configured to permit a liquid to be filled into the second compartment while preventing the liquid from escaping the second compartment.

23. A method of preparing a wipe kit, comprising the steps of:

(a) placing a dry first wipe in a first compartment of a pouch having a one-way filling valve coupled to a second compartment of the pouch, wherein an access opening is located at the first compartment, and closing the pouch to form a closed pouch;

(b) irradiation sterilizing the closed pouch to form a sterilized closed pouch; and

(c) filling the second compartment of the sterilized closed pouch with a solution via the one-way filing valve to saturate the dry wipe with the solution.

24. The method of claim 23, wherein the step (c) forms a sterilized filled closed pouch, and further comprising the step of placing the sterilized filled closed pouch in a bag and hermetically sealing the bag to form a sterilized filled closed pouch enclosure.

25. A wipe pouch, comprising:

a first compartment containing a dry wipe;

a second compartment containing a liquid, wherein an access opening is located at the first compartment;

a one-way filling valve coupled to said second compartment; and

a coupling assembly coupling the first compartment to the second compartment and having a closed configuration in which the first compartment does not communicate with the

second compartment, and an opened configuration in which the first compartment communicates with the second compartment.

26. The pouch of claim 25, wherein said coupling assembly comprises a frangible seal.

27. The pouch of any of claims 25-26, wherein said one-way filling valve is configured to permit the liquid to be filled into the second compartment while preventing the liquid from escaping the second compartment.