



**OdorX® Double-O™**  
**FOR PROFESSIONAL USE ONLY**  
LegendBrandsRestoration.com

## Protein Smoke Odor Counteractant and Deodorant

### BACKGROUND

Double-O is an odor control product used primarily to eliminate the unusually obnoxious odors that come from events involving protein. A common example is a fire involving foods such as meat, poultry, fish or beans. Double-O is also quite useful in controlling odors from spoiled food or sewage.

Double-O is a blend of odor control counteractants, solvents and detergents that reduce the spread of odor causing molecules into the atmosphere. Double-O also contains surfactants that help the product penetrate into odor damaged surfaces and to disperse in water. When applied to porous or absorbent materials, the solvents in Ready-To-Use (RTU) solutions of Double-O dry rapidly thus promoting the desorption of smoky malodors from treated surfaces.

### ITEMS NEEDED

- Double-O concentrate
- Pump up pressure sprayer
- Measuring cup
- Five gallon pail
- Adequate supply of clean towels and a plastic bag to store soiled towels
- Personal protective equipment as specified in the Material Safety Data Sheets.

### PRETESTING

Double-O is diluted with water during use. Check compatibility of environmental surfaces with the RTU solution before using. Pay particular attention to clear plastics and painted surfaces. In smoke damage clean up, careless application of dilute Double-O can make the smoke residue penetrate more deeply into the paint; this makes removal of the residue more difficult. All charred and visibly smoke damaged surfaces and materials generally require treatment. In light smoke damage situations spraying wall surfaces may not be necessary for effective odor control

Double-O can be used in a variety of situations:

1. Suppression spraying for immediate reduction of protein smoke odor. This is the first step in the Unsmoke® 3-Step Odor Removal Process\*. See below for a summary of this system.
2. As an additive to water based cleaning solutions.
3. As a laundry deodorizing additive.
4. Removal of odor from refrigerators or freezers in which food has spoiled.
5. Control of sewer related odors.

### **THREE STEP ODOR PROCESS SUMMARY**

*This is a multistep approach to odor control and addresses a wide variety of odors in many different types of buildings.*

*STEP 1: Suppress odor sources by low pressure spraying with Double-O. It is important that the odor counteractant solution come in direct contact with all contaminated surfaces that might be a source of odor. This provides an initial knockdown of strong, objectionable odors.*

*STEP 2: Sprinkle 4 ounces C.O.C. (Crystal Odor Counteractant) per 200 square feet (120 ml. per 20 square meters) of floor area. For best results, use the Citrus version.*

*STEP 3: Apply thermal fogging. Prior to fogging, review the User Guide and product label for Thermo-55 and Therm-2000. Following thermal fogging, allow appropriate dwell time (at least one hour) and then use exhaust ventilation prior to reoccupancy.*

General structural and content cleaning are critical to achieving long term odor control.

### APPLICATION 1: SUPPRESSION SPRAYING

#### Preparation

For most odor control situations prepare a ready to use (RTU) solution by mixing 3 fluid ounces of Double-O concentrate with enough water to make one gallon (24 mL per L). For exceptionally strong odors increase the concentration to as much as 4 ounces per gallon (32 m: per L). Prepare all RTU solutions BEFORE entering the worksite.

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If you are not familiar with the area, it is a better strategy to use the minimum recommended amount of Double-O and gradually increase concentration until you obtain optimum results. It is easier to add product than to remove it once it is already applied.

## Procedure

Familiarize yourself with the Unsmoke Odor Control System before using Double-O.

1. Be sure that spraying equipment is clean and that it functions properly before entering the worksite. Be particularly careful about spray nozzles to be sure they are clean and that they produce an even spray pattern.
2. Use the personal protective [PPE] equipment required for each situation.
3. Identify surfaces that were damaged by fire and smoke. Scan each room and examine all vertical and horizontal surfaces. Look for evidence of fire damage such as charring, soot trails, distorted or melted surfaces. Check areas such as closets, cabinet interiors, and behind window treatments.
4. Low pressure spray (do not fog) an RTU solution of Double-O onto pretested surfaces and items. Pay special attention to odor sources such as the stove, vent hood, interior/exterior of kitchen cabinets, burned or heat damaged areas, the ceiling, etc. To suppress protein odors throughout the premises spray carpets, and other horizontal surfaces with an RTU solution of Double-O.

### Notes:

- An alternative application technique involves damp wiping rather than spraying. Dip a clean terrycloth towel into an RTU solution of Double-O, wring out excess liquid, and wipe over the odorous surfaces.
- Not recommended for spraying in ventilating systems.

## APPLICATION 2: USE AS AN ADDITIVE FOR WATER BASED DETERGENT SOLUTIONS

Use DOUBLEO® as an odor control additive for water based solutions, solutions that are used to clean structural surfaces and contents items. Use ½ to 1 ounce of Double-O per gallon of ready to use cleaning solutions. All water cleanable surfaces must be properly cleaned as part of a normal decontamination process.

## APPLICATION 3: LAUNDRY DEODORIZING ADDITIVE

Add 2-4 ounces (60 to 120 mL) of Double-O per standard 8 pound (3.6 kg) laundry load. Use in the wash cycle.

## APPLICATION 4: DEODORIZING REFRIGERATORS AND FREEZERS

Double-O is useful in the cleanup and salvage of refrigerators/freezers in which food has decayed. Dilute solutions of Double-O may be contact sprayed onto contaminated surfaces. Add Double-O at the rate of 2-4 ounces (60 to 120 mL) to the cleaning solutions as needed.

Note: Double-O is an odor control product and not intended as a germicidal product. Surfaces that are contaminated with substances such as rotten food must either be disposed or decontaminated. Double-O is not recommended as an additive to any germicidal product.

## APPLICATION 5: SEWAGE RELATED ODORS

Dilute Double-O with water and contact spray onto contaminated items and surfaces. Add concentrated Double-O as needed to odorous standing water. Based on an estimate of the amount of water present, attempt addition of Double-O at the rate of 2-4 ounces (60 to 120 mL) per gallon of water.

Note: Double-O is an odor control product and not intended as a germicidal product. Surfaces that are contaminated with substances such as sewage must either be disposed or decontaminated. Double-O is not recommended as an additive to any germicidal product.

## SAFETY CONSIDERATIONS

- **IMPORTANT:** The odor of this product, like any other common material with a fragrance may be irritating to some persons with allergic sensitivity. It is recommended to allow occupants to “sniff test” the product prior to application. For “sniff testing” prepare the ready-to-use solution and dip a note card or business card into the solution. Allow occupant to “sniff” both wet and dried solution. Obtain permission from occupants prior to product application. Individuals may reoccupy treated spaces when they feel physically comfortable and/or upon advice of their consulting physician.
- Be sure to use personal protective equipment. Depending on the nature of the damage in the building, this could include hard hats, heavy soled shoes, full protective suits or aprons. In every instance when spraying solutions overhead or in your breathing zone you should use eye protection, gloves and respiratory protection.
- Be sure to remove plants, pets or any person not wearing PPE before using the product.
- Read the Safety Data Sheets (SDSs) for all products before using. You can obtain SDSs from your distributor or download them from **LegendBrandsRestoration.com**.
- Note that Double-O concentrate is flammable and should be kept away from sources of ignition. RTU solutions are not flammable, however.

## NOTES

Where NOT to use:

- Do not use Double-O where there are individuals who have sensitivity to fragrances

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- Do not use Double-O in either cold or thermal fogging devices
- Do not allow Double-O to come in contact with food or utensils
- Do not allow Double-O concentrate to come into contact with solvent sensitive materials such as plastics, laminates or varnishes. Wipe up any spills with a damp cloth at once.

**Cleanup**

- Check all PPE for damage. Repair or replace as needed.
- Clean the outside of the spraying equipment to remove soot and soils. This will help to prevent cross-contamination and will maintain your professional image on the next job.
- Flush the sprayer with detergent and then rinse with water to remove any product residue. Empty water from the sprayer, especially in cold climates where freezing is possible.
- Wash hands after use.

**ADDITIONAL REFERENCES**

- For technical support 24/7, call 800-332-6037.
- For first aid advice related to exposure to this product, call Infotrac at 800-535-5053 (USA and Canada) / 352-323-3500 (worldwide).
- Odor Removal Manual
- Restoration Sciences Academy Certification Classes. For scheduling and location of classes, go to

LegendBrandsRestoration.com.

**DOUBLE-O TECHNICAL DATA**

Sizes available	Case 4 x 1 gallon (3.8 L.) bottles
Reorder number	431752000
Color	Orange-yellow
Odor	Citrus
Appearance	Transparent liquid
Density	8.0 pounds per gallon (0.9 gm. / mL)
pH of ready to use	7.2
Surfactant type	Nonionic
Phosphate content	None
Flash point	127°F (53 C.)