



**SPANWORLD**  
**DECON SOLUTIONS**  
FOR A CHANGING WORLD

## MDF-200/500®

***MDF-200/500® is your first line of defense when confronting Viral, Bio-logical and Chemical Contamination.***

MDF-200/500 was initially developed and patented by Sandia National Laboratories under a grant from the U.S. Department of Energy. MDF-200/500 is commercially manufactured by Span-World Distribution under a licensed agreement with Sandia National Laboratories as a commercial partner.

Decontaminate·Viricide·Disinfectant·Fungicide·Mildewstat·Deodorizer

*EPA Registration Number 91899-1 & 91899-2*

*Patent NO: 6,566,574 B1*

***Listed on EPA List N: Disinfectants for Use Against SARS-CoV-2***

MDF-500 is easily deployed via wide range of equipment options including:

- ◆ ULV Fogging Equipment (Including Electrostatic ULV)
- ◆ Hand Held Sprayer and Foam Devices
- ◆ Commercial Foaming Equipment
- ◆ Emergency Back Pack Foam Unit (Avail. from Span-World Distr.)

### Product Information

- ◆ Non-Flammable
- ◆ Bio-degradable/Environmentally Friendly
- ◆ Safe for use around electronics
- ◆ No harmful Residue (Food contact areas should be rinsed with potable water per our EPA label)

MDF-500 is stocked and available in a wide range of packaging options

- ◆ 4 gallon case (2 gallons Part A & 2 gallons Part B)
- ◆ 600 gallon IBC Totes (300 Gallons Part A & 300 Gallons Part B)

Distributed By:





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## How MDF-200/500® Works

- 2-Step Remediation with 1 Application:
  - Quaternary amines penetrate the cell wall
  - Hydrogen peroxide then oxidizes critical cell substances

## The MDF-200/500® Advantage

- Faster Turnaround Time/ Less Labor
  - Returns clients to home and work quicker with out the time consuming wipe down
- Without the Concerns of Long Term Corrosive Effects of Conventional Disinfectants

### Steel Coupons



**Deionized Water -  
24 Hour Exposure**



**Sandia Decon Foam -  
24 Hour Exposure**



**Bleach - 24 Hour  
Exposure**

Courtesy of Sandia National Laboratories

Photo Courtesy of Sandia National Laboratories.



**MDF-200/500® Protocols: General Disinfection**  
**PREPARATION**

**PPE:** Proper PPE should be the first consideration when dealing with a chemical product. Please review our SDS for product characteristics and requirements. Product should not encounter the skin or eyes. Gloves, Goggles, Safety Glasses, and Protective Chemical suit are recommended. When utilizing ULV spray system or airless spray, half face respirator or full face respirator should be utilized.

**Mixing:** Mix solution as necessary for area to be treated. Mixed solution should be used within 8 Hrs. Mix equal parts of A and B. Product may be mixed in application container.  
 (1 gallon typically treats approx. 2500 - 4000 square feet with ULV sprayer application)

**Application Equipment:** ULV Cold Sprayer(mist), Standard Pump Sprayer, Commercial Foamers and Airless Spray Equipment may be considered. Product may also be used as general wipe down and cleaner.

**General Procedure: Product should be utilized per our EPA registered labels 91899-1 & 91899-2**

- Mix Part A and Part B 50/50 to the desired volume needed.
- Make sure treated surfaces are dampened by MDF-200/500®, but not to the point of run-off or over-saturation.
- Surfaces should remain wet for a minimum of 10 minutes per our EPA label.
- Food Contact areas should be wiped down with fresh water after application.

**PROCEDURE For ULV Cold Spray(mist) and Airless Spray**

- Evacuate all occupants from building during the decontamination process.
- Remove all pets and Cover aquariums and turn off aquarium aerator pumps. They should be off for a minimum of 8 hours following completion of application or until fog has settled.
- Cover sensitive wood furnishings & floors (polished tables, pianos, etc.) with protective tarp or drop cloths. The spray solution can cause marks in polished finishes of wood furniture if applied heavily enough to cause runoff.
- Atomize or “(ULV) Cold Mist Spray” the entire building or area of building,
- Make sure treated surfaces are dampened by MDF-200/500®, but not to the point of run-off or over-saturation.
- Surfaces should remain wet for a minimum of 10 minutes per our EPA label.
- After application, area should remain closed for a minimum of 30 minutes prior to opening and allowing to air out.
- Ensure all mist is settled prior to opening the building to the public.
- Food Contact areas should be wiped down with fresh water after application.

<b>First Aid</b>	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF ON SKIN:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p><b>NOTE TO PHYSICIAN</b> Probable mucosal damage may contraindicate the use of gastric lavage. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call 1-800-222-1222 for emergency medical treatment information.</p>	