EnviroDecon® DF-200

Sandia National Laboratories Chemistry • Developed for the US Department of Defense

TECHNICAL SPECIFICATION SHEET

Certified Forensic Operators® | FIGSCDT Verified

CHEMISTRY SUMMARY

Component	Function	Active Agent
Part 1 — Surfactant System	Penetrates and disrupts biofilm matrix; lifts organic contamination from porous surfaces	Proprietary amphiphilic blend (Sandia formulation)
Part 2 — Oxidizing Agent	Destroys pathogen cell walls via oxidative burst; breaks down VOCs and odor compounds	Stabilized H■O■ (hydrogen peroxide) + peracetic acid precursor
Part 3 — Efficacy Catalyst	Activates and sustains the oxidative reaction; extends residual protection on treated surfaces	Transition metal catalyst (EPA-registered synergist)

Delivery Method: Electrostatic fogging (EnviroDeconForce® system) or manual spray/wipe application. Fog particle size: 5–10 microns (reaches all surfaces including HVAC ducts, upholstery, and sub-floor voids). **Contact time:** 10 minutes. **Residual protection:** 30–90 days on treated surfaces.

PATHOGEN EFFICACY

Pathogen / Threat	Category	Log Reduction	Relevance
Norovirus (GI.1, GII.4)	Non-enveloped virus	**≥4 log (99.99%)**	Cruise ships, food service
Hantavirus (Sin Nombre)	Enveloped RNA virus	**≥5 log (99.999%)**	Rodent-infested vessels, warehouses
SARS-CoV-2 (COVID-19)	Enveloped RNA virus	**≥5 log (99.999%)**	All occupied facilities
C. difficile (C. diff)	Bacterial spore	**≥4 log (99.99%)**	Healthcare, long-term care
Stachybotrys (Black Mold)	Fungal spore	**≥4 log (99.99%)**	Water-damaged buildings
Bacillus anthracis (Anthrax)	Bacterial spore	**≥6 log (99.9999%)**	Bioterrorism response (DoD validated)
MRSA / VRE	Antibiotic-resistant bacteria	**≥5 log (99.999%)**	Healthcare, hospitality
Aspergillus fumigatus	Fungal pathogen	**≥4 log (99.99%)**	HVAC systems, immunocompromised
Fentanyl / Meth residue	Chemical contaminant	**Complete neutralization**	Crime scene, residential
Blood-borne pathogens	OSHA Category A	**≥5 log (99.999%)**	Crime scene, trauma

Source: Sandia National Laboratories efficacy data; EPA Registration No. 87583-1; USDA/DHS validation studies. Log reduction values represent minimum performance under worst-case field conditions.

DOCUMENTATION PACKAGE — INCLUDED WITH EVERY TREATMENT

Document	Purpose	Accepted By
Pre-Treatment FIGSCDT Imaging Report	Fluorescence map of all contamination zones before treatment	Insurance carriers, legal counsel, regulatory inspectors
Post-Treatment Clearance Certificate	Signed CFO® operator certification of complete pathogen elimination	CDC VSP inspectors, health departments, property managers
Chain of Custody Log	Time-stamped record of all treatment activities and personnel	Courts, OSHA, insurance adjusters
EPA Registration Documentation	Proof of EPA-registered chemistry and application method	Regulatory compliance, procurement departments
Operator Credential Verification	CFO® license numbers and Microbial Warrior® International certification	Risk management, legal, procurement
30-Day Recurrence Guarantee	Written guarantee: no pathogen recurrence within 30 days; re-treatment at no charge if confirmed	Facility managers, fleet operators, resort directors

REQUEST A QUOTE EnviroDecon® | EnviroDeconForce® System New Mexico's Only Certified Forensic Operators® Powered by Microbial Warrior® International	**Phone:** +1 (505) 531-6445 **Email:** help@envirodecon.com **Web:** envirodecon.com **Product:** envirodeconforce.com	**Service Area:** All of New Mexico Albuquerque · Santa Fe · Las Cruces Rio Rancho · Los Lunas **Emergency Response:** 24/7