



**Crystal Clean®**

by Intelagard

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# History of Intelagard



1991

- Intelagard designed stationary compressed air foam systems (CAFS) to protect homes in high-risk area from wildfires.
- Macaw Backpack

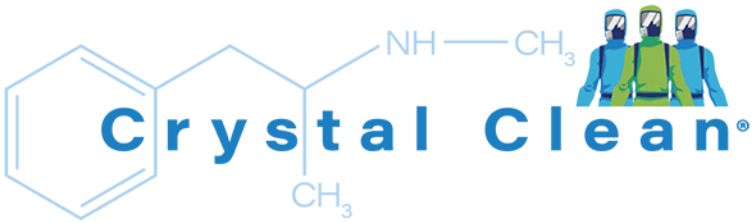
1999

- Sandia National Laboratories (Sandia) developed Decontaminating Foam 100 (DF100) as a solution for use against biological and chemical weapons of mass destruction.
- EnviroFoam Technologies (EFT) acquires a commercial license to this formula

2000

- The **Macaw backpack** selected by Sandia National Laboratories as their deployment system for testing chemical and biological decontamination.
- Enviroshield™ Technology





# History of Intelagard

2005

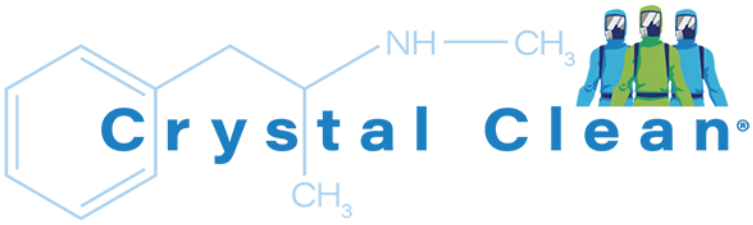
- EFT launches **Crystal Clean**, a sister product of the EasyDECON® DF200, for use in clandestine lab clean-up.

2006

- Intelagard acquires Envirofoam Technologies (EFT). This results in a reliable and proven **decontamination solution** and the world's most advanced Compressed Air Foam (CAF) **applicators**.





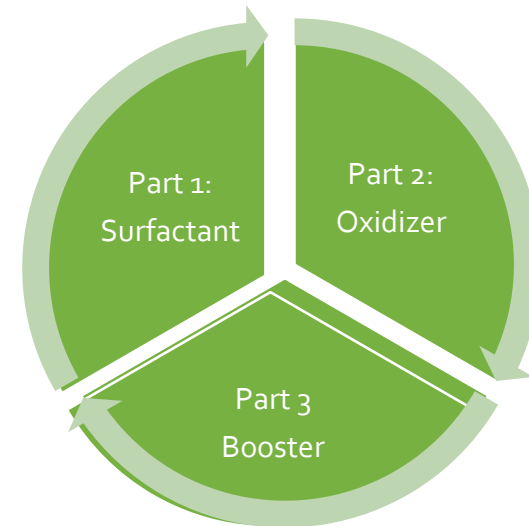


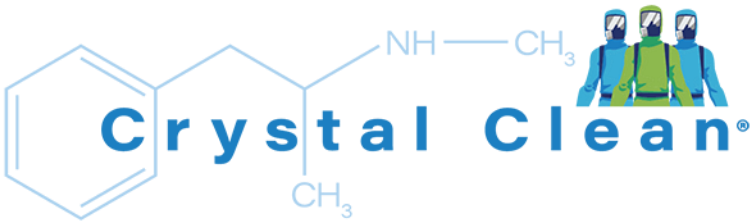
# What is Crystal Clean™



Crystal Clean consists of three separate compounds that when combined **serve to break the bond between the methamphetamine contaminant and the contaminated surface**, making it easily removable.

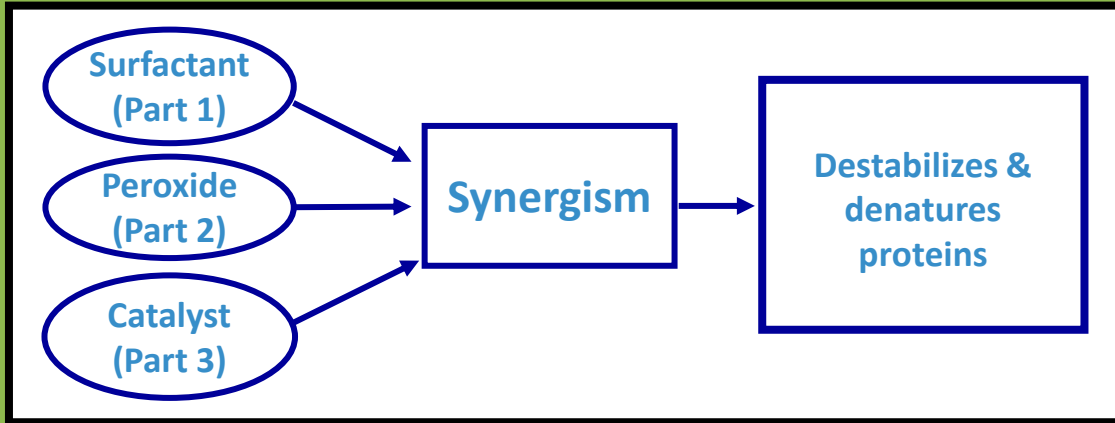
Crystal Clean is made of mild, nontoxic and noncorrosive chemicals found in common household products, such as hair conditioner and toothpaste.





# How Crystal Clean™ Works

Crystal Clean is a three-part formula containing a surfactant, Hydrogen Peroxide and a booster.



**A triple wash is not enough! Decontamination is required to neutralize the contaminate and other toxic residues found in clandestine labs.**

1

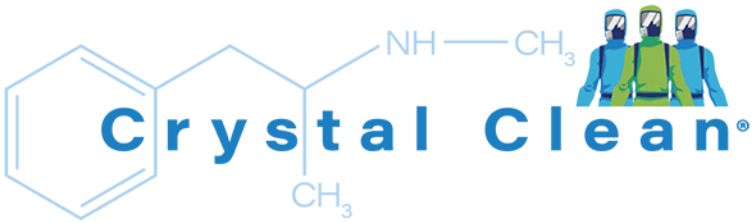
**Surfactants which lift agents off a surface.**

2

**Mild oxidizer that breaks down the agent's molecules into **nontoxic** pieces.**

3

**Booster that speeds up the oxidation process.**



# Benefits of Crystal Clean™

1

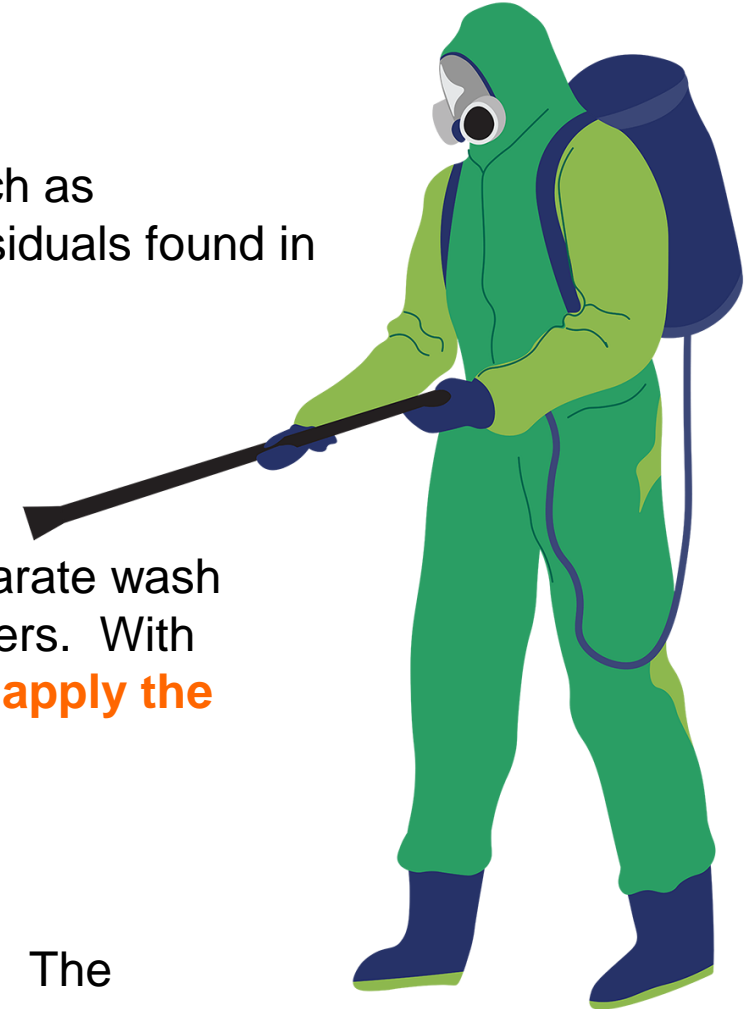
Engineered to isolate, capture and lift surface contaminants such as **methamphetamines, fentanyl, carfentanil**, and other toxic residuals found in clandestine labs.

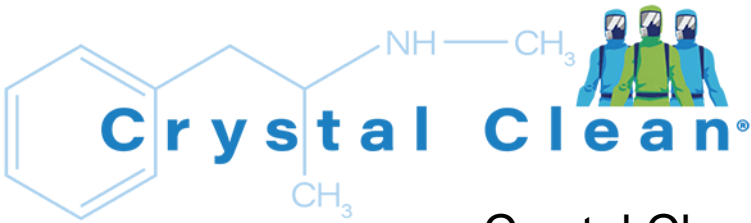
2

Traditional cleaning methods can require as many as three separate wash downs of all surfaces using a variety of over-the-counter cleansers. With Crystal Clean, **remediators mix the three parts together and apply the solution once!**

3

Third party lab testing shows Crystal Clean is **100% effective!** The oxidation of methamphetamine to another compound was complete and no methamphetamine was detected after the initial treatment.



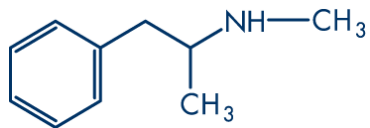


# One and Done

Crystal Clean was developed for the U.S. military to breakdown chemical weapons i.e., Anthrax, Nerve Agents, Mustard Gas, etc.



Decontaminate a 10x10 bedroom in 35 SECONDS



**Let the chemicals do the job not your staff so you can save money on labor hours.**

## The Triple Wash

This cleaning process only uses a surfactant to pull out the contaminants while scrubbing.

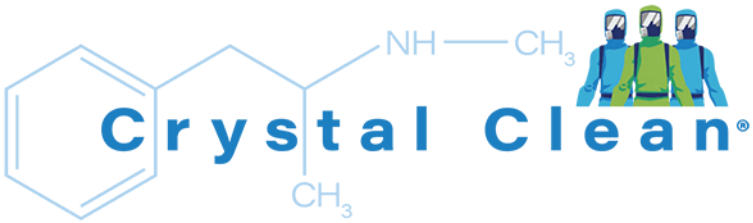
- Heavy man hours to **scrub, rinse, repeat.**
- Very abrasive and may cause damage to property.

## The One Step Solution

The chemical process breaks down the oils and chemical bonds without the need to scrub.

- Apply Crystal Clean as a foam
- 1 hour dwell time (for best results)
- Using only fresh water, rags, and sponges, the crew then removes the benign residue from all surfaces.
- Save up to 70% of labor cost by NOT scrubbing

“Crystal Clean (hydrogen peroxide/quaternary ammonia complex) was 100% effective (Lakewood, CO). The oxidation of methamphetamine to another compound was complete and no methamphetamine was detected after the initial treatment.”



# Why A Foam Application is Best

May be applied as a liquid, foam or fog using commercially available equipment

1

When applied as a foam far **less waste** is generated (water & solution)

2

Water can be significantly minimized, thus less water damage, staining and runoff, and **less potential for mold growth**.

3

Visual indication of which area has been treated, and which area may have been missed. This ensures that every surface is covered and **prevents over application of the Crystal Clean**.

4

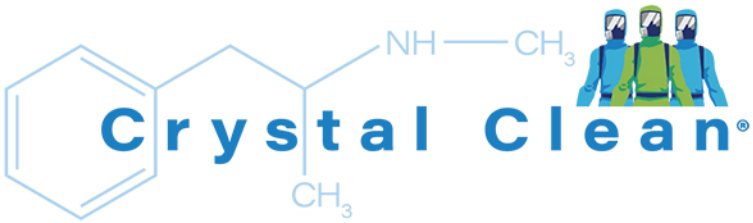
Foam will remain in place and **wet for required dwell time**.

5

Deeper penetration resulting in a more **successful removal of VOC's, toxic chemicals, and hazardous chemical residues**.







# EXPERT APPLICATORS

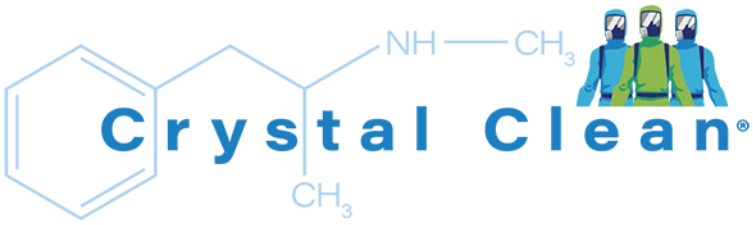
The SwiftCAF® Sprayer System and Macaw® Backpack were designed for the remediation industry as easy-to-use, low-cost alternatives to heavy-duty equipment

## SwiftCAF Sprayer System

- Shoots foam up to 30 feet
- 20ft discharge hose with handset and nozzle
- Turns 4-gallons of Crystal Clean into **140 gallons of finished foam**
- Enviroshield™ Technology creates foam that clings to vertical and horizontal surfaces with **minimal run-off or dripping = perfect for walls and ceilings**
- Works on **porous and semi-porous surfaces**
- System on **wheeled cart** for easier transport from room to room
- Comes with a smoothbore and fan spray nozzle
- Decon **attic and crawl spaces** in minutes



System runs of a 12 CFM air compressor (not included)



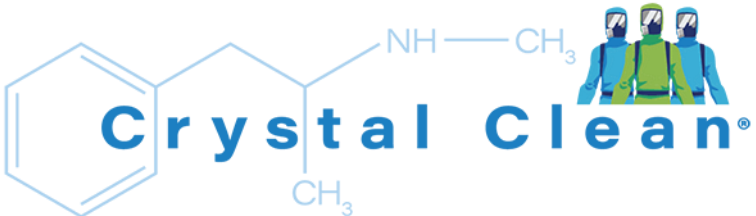
# EXPERT APPLICATORS

## Macaw® Backpack System

- Shoots foam up to 30 feet
- 5ft discharge hose with handset and nozzle
- Portable and comfortable backpack design
- Powered by an air cylinder or compressor port.
- Turns 5-gallons of Crystal Clean into **125 gallons of finished foam**
- Enviroshield™ Technology creates foam that clings to vertical and horizontal surfaces with **minimal run-off or dripping – perfect for walls and ceilings**
- Works on porous and semi-porous surfaces
- Comes with a smoothbore nozzle







# FOAM APPLICATION



## NOT ENOUGH FOAM

Foam needs to be applied as a thin and consistent spray across the surface. Center is bare and sides are heavy.



## TO MUCH FOAM

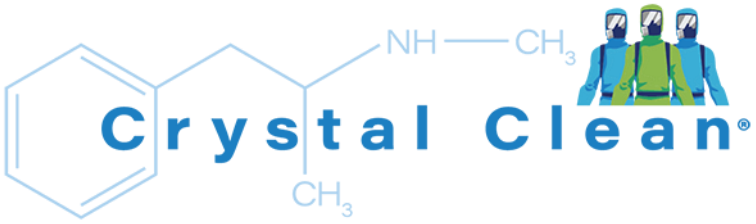
Foam does not need to be applied thick like cake frosting. If the foam is dripping down the wall, you have over applied.



## PERFECT

Nice even overlap.

Deeper penetration resulting in **successful removal** of toxic chemicals, **VOC's, and hazardous residues.**



# Summary

- 1 Crystal Clean is a collection of **mild, nontoxic, and noncorrosive chemicals** found in common household products, such as hair conditioner and toothpaste.
- 2 Crystal Clean is a commercial decontaminate for clandestine labs; **methamphetamines, fentanyl, carfentanil, and other toxic residues and VOC's**.
- 3 Crystal Clean breaks the bond between the methamphetamine contaminant and the contaminated surface
- 4 May be applied as a **liquid, foam or fog** using commercially available equipment
- 5 Third party lab testing shows Crystal Clean is **100% effective!** With **no** harmful byproducts created during the decontamination process.





## DF200 Decontamination Products



### Doff 'n DECON™

*Preserve gear. Prolong life.*

High-performance PPE cleaner and decontaminate formulated to remove:

**Stubborn Soot**

**Greases**

**Oil**

**Hydrocarbons**

**Toxic Chemicals**

from turnout gear and other PPE.



### EasyDECON®

This formula is an EPA registered:

Disinfectant

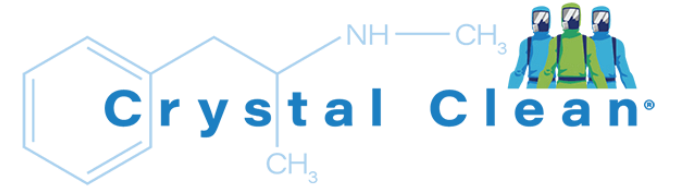
Bactericidal

Fungicidal

Mildewstat

all in one product.

The EasyDECON is great for remediators working in the mold industry because it will **kill mold spores and neutralize mycotoxins** and other microorganisms.



Crystal Clean has 3 separate components that when combined, target contaminants and detach them from surfaces. This powerful formula uses surfactants and mild oxidizers to **attack VOC's, toxic chemicals, and hazardous chemical residues.**



Intelagard offers 15+ CAF systems.  
Please call to learn which system and  
solution is best for your organization.

[Intelagard.com](http://Intelagard.com)  
[EasyDECON.com](http://EasyDECON.com)

