



Document Type / Category Instructions For Use (IFU)
Document Number, Issue, Title IFU-050FOG, Draft 01 – Aeris Defence Hard surface disinfection using fogging equipment

1. PURPOSE

THE PURPOSE OF THIS PROCEDURE IS TO DISINFECT SURFACES USING AERIS DEFENCE with FOGGING EQUIPMENT.

This IFU covers the steps and actions that need to be taken in the use of Aeris Defence hard surface disinfectant for large scale industrial applications where the product will be applied by fogging. It is not the intention of this IFU to achieve airborne room disinfection.

All Aeris Environmental personnel, sub-contractors and certified applicators are expected to take an active role in establishing, implementing and maintaining this Procedure in line with this IFU according to their role and responsibility.

The fogging of Aeris Defence is aimed at reducing the possible risks of contamination to remediation teams carrying out deep cleaning against potentially dangerous pathogens and is not the final step but the initial one taken before deep cleaning/intensive remediation.

2. PROCEDURE DESCRIPTION AND PROCESS FLOW

The disinfection of hard surfaces with Aeris Defence should be implemented in accordance with Aeris Environmental Recommendation, this IFU, the work order and / or the job specification.

The steps in this procedure are as follows:

1. Preparation
 - a. Product Handling & Packaging
 - b. Apparatus & Equipment Required
 - c. Application Rates
 - d. PPE and OH&S Requirements
2. Setup
3. Application Process
4. Clean up Process

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3. PROCEDURE

1. Preparation

a. Product Handling & Packaging

Applicators should consult the product Safety Data Sheet (SDS) prior to product use and handling.

Aeris Defence products come as a ready to use formulation. The product is available in 300 millilitre, 750 millilitre and 5 Litre containers with a shelf life of 2 years from the date of manufacture.

Always store the product out of direct sunlight and not exposed to hot environments for extended periods of time.

b. Apparatus & Equipment Required

If INTENSIVE REMEDIATION/DISINFECTION is necessary the equipment needed will include all or some of the following –

- Drying equipment
- Suitable PPE for the job being undertaken (see section 1d below).
- Monitoring/Testing Equipment
- Containment Equipment
- Hand Tools (Screwdrivers, Hammer, Saw, Pliers etc.).
- HEPA Vacuum
- Buckets
- Microfibre Cloths
- RCD (Residual Current Device).
- Non thermal fogging equipment.

This equipment list is a suggestion only and may not include all equipment needed. If unsure of procedure and intend conducting mould remediation without using an appropriate company it is highly recommended to follow ICRC R520-2015 or look at material such as Mould Workers Handbook.

If an inspection to assess the level of remediation to be undertaken is needed, please call Aeris+612 83441315 for a list of qualified mould remediators in your area.

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c. Product Dilution and Application Rates

Do NOT dilute product Is ready to use.

Application rates depend on the surface to be cleaned and the level of soiling present. The surface should be visibly wet for at least 10 minutes.

Although Aeris Defence is effective under dirty conditions, any gross debris/dirt is recommended to be removed prior to any disinfection step. See section 3 for more detailed application process

d. PPE and OH&S Requirements

WARNING: Causes serious eye irritation, skin irritation. Do not get in eyes or on clothing. Wear PPE as listed below.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing spray mist.

Remove contaminated clothing and wash clothing with water before reuse.

Additional safety equipment may be required to comply with state and local regulations or the particular nature of the project.

UNDER NO CIRCUMSTANCES IS SMOKING PERMITTED IN OR WITHIN 30 METRES OF THE FACILITY BEING TREATED.

ALL ELECTRICAL AND OR SPARK SOURCES MUST BE ISOLATED WITHIN THE AREA BEING FOGGED.

PPE:

- Full face respirator with filters rated for pesticides and solvents
- Disposable suit
- Type 1 heavy duty safety boots should always be worn.

Note* Other safety equipment may be required. OH&S requirements can vary geographically or by project nature.

2. Setup

- a. Ensure that the area being cleaned is closed off from public access. Any equipment in the area is "off line / isolated from operation" prior to and during the entire cleaning process.
- b. If using any electrical equipment ensure it is protected by a (RCD) Residual Current Device to protect the user from electrical shock
- c. Ensure equipment being used is in good working order & tagged (if necessary).
- d. Other parts of the system may need to be covered as well.

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3. Application Process

- a. Before preparation of the surface prior to the application of Aeris Defence first remove the bulk dust and debris. Depending on the environment and the level of visible dirt, dust and debris the use of a HEPA rated vacuum cleaner is recommended. If the contaminated area is greater than 2 m² it is recommended to set up containment walls and put the area under negative pressure.
- b. Use Aeris Defence and clean microfibre cloths to clean the surface.
- c. The invisible anti-bacterial film is removed and replaced upon re-application. There is no build-up from repeated applications.

Aeris Defence is compatible with the vast majority of surfaces both natural and synthetic.

All personal safety equipment must be worn for the remainder of the procedure.

ULV or Mist Generating Sprayers

ULV or mist or other wet, small droplet size applicators are preferable where surfaces are irregular or less accessible. Equipment capable of generating particles in the 15 to 60 micron range is suggested and satisfactory. Avoid use of thermal type fog generators.

Generally, a fog will carry and provide adequate coverage for up to 2.5m from the point of applications to assure complete coverage. Ensure surfaces are visibly wet.

Operators should be trained on proper applications techniques as well as correct sealing procedures complying to locally approved standards and guidelines. Operators should also carefully read and follow directions for the brand of equipment used.

A coverage rate of 40ml per sq m should be used during fogging application.

4. Clean Up

- Ensure that all equipment is rinsed with water.
- Leave the worksite as you found it.
- Remove and dispose of all empty product containers.
- Remove all rubbish you have taken on-site and any plastic sheeting blocking ductwork.
- Return any machinery to correct operational function.
- All traces of dirt must be removed before leaving site.

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