

DELUXE DECONTAMINATION KIT

December 2023

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Ludlum
Medical Physics

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Overview

The Ludlum Deluxe Decontamination Kit (part # 4525-562) contains the essential equipment, labeling materials, protective clothing, decontamination solvents, and cleaning supplies needed to deal with a basic radioactive spill or routine decontamination problem that may be encountered in the Nuclear Medicine Department or radiological research laboratory. The 30-gallon drum serves both as a container for the kit components, as well as a waste transfer and temporary storage (decay) vessel.



Kit Components

- 1 30-gallon drum (hazmat rated)
- 2 disposable sets of coveralls
- 2 pairs shoe covers
- 2 N-95 masks
- 4 pairs disposable gloves
- 1 DeconGel, 1 liter
- 1 box towelettes (50/box)
- 10 30-gallon trash bags
- 1 set 18-inch crucible tongs
- 2 mop heads
- 1 mop handle
- 1 plastic 3-gallon pail
- 1 steel 5-gallon pail with lid
- 1 scrub brush (6 in.)
- 1 roll (3 in. x 1000 ft) “Caution Rad Area” barricade tape
- 2 laminated (7 x 10 in.) “Radioactive Material” signs
- 3 vinyl (5 x 7 in.) “Radioactive Material” labels
- 1 roll absorbent paper towels

Nuclear Medicine Department Emergency RAM Spill Response Guidelines

1. Notify all personnel in the area that a spill has occurred.
2. Notify Radiation Safety Officer/Radiation Safety Department promptly in the event of:
 - Radioactive material spills
 - Personnel contamination or a positive bioassay result
 - Loss of radioactive material
 - A Molybdenum breakthrough result exceeding the limit
 - Contaminated or damaged RAM shipments
3. Prevent the spread of contamination by initially covering the spill with absorbent pads or paper.
4. Secure the area and limit traffic into or near the spill with warning signs or safety barricade tape or roping.
5. Decontamination:
 - All workers in the spill area should wear booties, gloves, disposable coveralls, and eye protection.
 - Begin cleaning at the edge of the spill and work towards the center.
 - Survey the area after cleaning to evaluate the effectiveness of the decontamination.
 - Continue cleaning until survey results are below trigger RSO/Radiation Safety Procedure prescribed levels for the area.

6. Survey all personnel involved in the spill and spill cleanup.
7. Document what happened and survey the results.