



MANAGEMENT SYSTEM MANUAL

ARM 8.10 R/V Armstrong Hazmat Spills/Clean-up

Originator:	Approved By:
Kent Sheasley	Al Suchy

1 Purpose

The purpose of this procedure is to set forth the guidelines for handling hazardous materials on board R/V Armstrong.

2. Responsibility

It is the responsibility of the Master to see that all Hazardous Materials (HazMats) are properly handled, stowed and marked in compliance with CFR and DOT regulations. Within the scope of the regulations, the Chief Scientist may supervise the embarked science party in laboratory safety and the chemical storeroom with the knowledge and approval of the Master. The Primary Investigator (PI) using isotopes is responsible to see that all safety precautions are observed. The Chief Engineer is responsible for the transfer of fuel oil per CFR and the SOPEP guide. The Chief Mate will serve as the safety and compliance officer for the vessel.

3. References

SMM Procedure 7.8.4 HazMat Operations

4. General

All hazardous materials shall have a Material Safety Data Sheet (MSDS) on board. Chemicals shall be stored in the appropriate storeroom as defined in 46CFR194.20 and in compliance with recommended compatibility segregation standards. The quantity of chemicals for use in the laboratory shall comply with guidelines set forth in 46CFR194.05. Laboratory safety and protocol has been established in the WHOI Safety Manual while the use of isotopes is incorporated in the Isotope User's Manual. Ship's hazardous stores must be stowed in compliance with 46CFR147 and 49CFR171, 172, and 176.

Response to a HazMat incident will be under the supervision and direction of the Chief Mate. The Chief Mate shall ensure that appropriate response equipment and supplies are available and that personnel have been briefed on the proper clean-up and waste disposal methods.

5. Procedure for HazMat spills and clean-up

- A. Upon declaration of a spill or incident:
 1. Evacuate the space immediately
 2. Secure all lab operations
 3. Notify the bridge
 4. Call out the response team
 5. Secure the perimeter
 6. Close all doors/ports



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7. Secure all ventilation systems
 - B. Take precautions to eliminate ignition if applicable.
 - C. Attend to any injuries.
 1. Consult MSDS for procedures.
 2. First aid, emergency eyewash/shower
 3. Remove contaminated clothing etc.
 4. If necessary, continue with call to MAS (Medical Health Provider via SAT communications/cell/radio.)
 - D. Call 800 number/Chemical Response Center/USCG/ other agencies (as required) for HazMat involved.
 1. Fill out HazMat report while info is current (form to be generated and provided to all ships in compliance with all applicable requirements).
 - E. Commence cleanup procedures, complete reports, monitor injuries/illness
 - F. Continue procedures as directed by health authorities.
 - G. Once the situation is stabilized, an investigation must be conducted to determine the cause and what measures are to be taken to prevent re-occurrence.

All HazMat residues, cleanup materials and contaminated items shall be placed in approved HazMat containers or bags prior to approved disposal. The Port Office shall make arrangements with an approved shore side disposal unit either locally or thru the ship's agent. Proper documentation from the disposal unit must be maintained in order to show evidence of receipt and proper disposal of contaminated materials.

5. **Records**

- Material Safety Data Sheets (MSDS) will be on board for on all chemicals that are classified as hazardous. The Port Office will provide current MSDS in CD-Rom form.