



SAFETY MANAGEMENT MANUAL

7.8.4 Hazmat Operations

Originator:	Approved By:
Theophilus Moniz III	J. L. Coburn, Jr.

1 Purpose

The purpose of this procedure is to set forth the guidelines for handling hazardous materials on board WHOI vessels.

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

46 CFR194.15-3, 46 CFR194.20-3 Sub Chapter U Oceanographic Research Vessels
46 CFR 147 Sub Chapter N Dangerous Cargoes
33 CFR151 Sub Chapter O Pollution
49 CRF171 Sub Chapter C Hazardous Materials Regulations
SOPEP Manual
Isotope User's Manual
Laboratory Safety Manual
Emergency Action Plans

4. Pre-Cruise Planning

Chief Scientists are responsible to:

- a. Communicate all intended use of HazMats to the Marine Operations Coordinator, who will incorporate this information into the cruise prospectus.
- b. Collect and deliver MSDS for all HazMat materials to be used on his/her cruise.
- c. Coordinate with the Chief Mate for the proper storage of HazMats. Only the amount to be used each day will be broken out. HazMats will not be stored in Labs.
- d. Arrange for removal and disposal of all HazMats and HazMat wastes.

5. General

The safe handling, storage and use of hazardous materials is a shared responsibility on board the vessels. All hazardous materials shall have a Material Safety Data Sheet (MSDS) on board. Chemicals will be stored in the appropriate storeroom as defined in 46CFR194.20 in compliance with recommended compatibility segregation standards. The quantity of chemicals for use in the laboratory should comply with the guidelines set



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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. Vessel action plans should identify potential HazMat emergencies, evaluate risks and determine a course of action as required by 49CFR172 Subpart G.

All waste chemicals shall be properly identified and labeled for proper disposal. All HazMat waste shall be identified and disposed of according to state and federal regulations.

6. Records

- Material Safety Data Sheets (MSDS) will be made available on all chemicals that are classed as hazardous. MSDS in CD-Rom form will be provided automatically in accordance with Port Office Administrative Procedures.
- All incidents will be investigated and reported as required.
- Periodic safety inspections, training and all drills will be recorded in SafeNet.