



SAFETY MANAGEMENT MANUAL

7.8.4 Hazmat Operations

Originator:

Chris Grech/Andrew McKee

Approved By:

Steve Etchemendy

1 Purpose

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

2. Responsibility

Within the scope of the regulations, the Chief Scientist will supervise the science party in laboratory safety and the chemical storage with the knowledge and approval of the Master. The Chief Scientist using isotopes is responsible to see that all safety precautions and procedures are observed. The Chief Engineer / Engineer In Charge is responsible for the transfer of fuel oil per CFR and the SOPEP guide. The Chief Mate or Master 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
MBARI Safety Manual
MBARI Radioisotope Manual

4. Pre-Cruise Planning

Chief Scientists are responsible to:

- a) Communicate all intended use of HazMats to the Marine Operations via the Precruise form.
- b) Coordinate with shore based Radiation Safety Officer if proposing to use isotopes.
- c) Collect and deliver MSDS for all HazMat materials to be used on his/her cruise.
- d) Coordinate with the Chief Mate for the proper storage of HazMats.
- e) 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 in accordance with applicable laws and regulations. The quantity of chemicals for use in the laboratory should comply with the guidelines set forth in the laboratory safety and protocol established in the MBARI Safety Manual.

Response to a HazMat incident will be under the supervision and direction of the Chief Mate or Master.



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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.
- All incidents will be investigated and reported as required.
- Any periodic safety inspections, training and all drills will be recorded in Ships log.