Idaho National Engineering and Environmental Laboratory

Hazard Identification and MSDS Deficiencies

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Hazard Identification

- *Critical to any safety program*
- *Effects of not identifying hazards*
  - *Safety program will not work*
  - *Hazard cannot be mitigated*
  - *Workers put at risk*
- *Effects of "Identifying" nonexistent hazards*
  - *Consumes valuable resources for no reason*
  - *Impose restrictions that can slow work and increase costs*

Traditional Method of Identifying Hazards

- *Consult MSDS or safety book/ manual*
- *Not efficient method*
  - *Errors in written documentation (primarily MSDSs)*
    - *Error rate studied and documented*
    - *Errors both major and minor*
  - *Local safety information not present*
  - *Requires interpretation*

Hazard Identification at the INEEL

- *Very important issue*
  - *Improper hazard identification is the root cause to many observed deficiencies*
- *Need to control hazard identification process*
  - *Prevent misinformation from being generated*
- *Need to control hazard identification information*
  - *Required to ensure data integrity*
  - *Information needs to be freely available*

Performing Hazard Identification at the INEEL

- *Need right people*
  - *Need organization to "own" the process*
    - *Chemical and Property Management Dept.*
  - *Need people with in depth knowledge of chemistry*
  - *HazMat training a big plus*
  - *Knowledge of regulations and intent a big plus*

Performing Hazard Identification (con't)

- *Developed evaluation criteria and process*
  - *Define what hazards are to be evaluated*
    - *Allows prioritization of hazards and ensures none are overlooked*
  - *Criteria needed to ensure hazard determinations consistent*
  - *Process required to ensure consistency throughout*

Performing Hazard Identification (con't)

- *Need resources*
  - *MSDSs are a starting point*
  - *Use other reference materials*
  - *People resources*
    - *Technical experts*
    - *Lawyers*
    - *MSDS people*

Information Management at the INEEL

- *Using existing computerized chemical management system*
- *Place hazard identification information in Chemical Data Summary Sheet*
  - *Available over Intranet for all to use*
  - *Provided in read only format*
  - *Available for over 20,200 chemicals and chemical products*

INEEL CHEMICAL MANAGEMENT SYSTEM
Core Page - SAFETY

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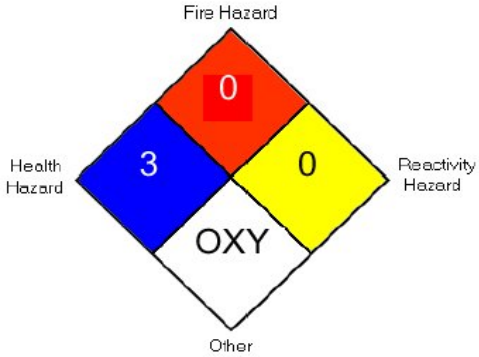
Product ID	Product Name	MSDS	Manufacturer
607	CADMIUM(II) NITRATE TETRAHYDRATE	01	VARIOUS



Additional Hazards	
CA	Carcinogen
CO	Corrosive
IR	Irritant
OX	Oxidizer
TO	Toxic

MCP-2707 Compatibility	
YELLOW-O	OXIDIZER

MCP-2707 Sec. Storage

MCP-2706 Time Sensitive

Uniform Building Code	
OX1	OXIDIZER, CLASS:1, SLIGHT INCREASE IN THE BURNING RATE OF COMBUSTIBLE MATERIALS: OXIDIZER, SLIGHT INCREASE IN THE BURNING RATE OF COMBUSTIBLE MATERIALS
TOX	TOXIC, CLASS:ALL: CLASS: ALL
COR	CORROSIVE, CLASS:ALL: CLASS: ALL
CAR	CARCINOGEN: CLASS: ALL, PRODUCE OR ARE SUSPECTED TO PRODUCE CANCER

UFC

Carcinogen