HANDLING, STORING & DISPOSING OF DANGEROUS SUBSTANCES, ARTICLES & GOODS IN THE WORKPLACE

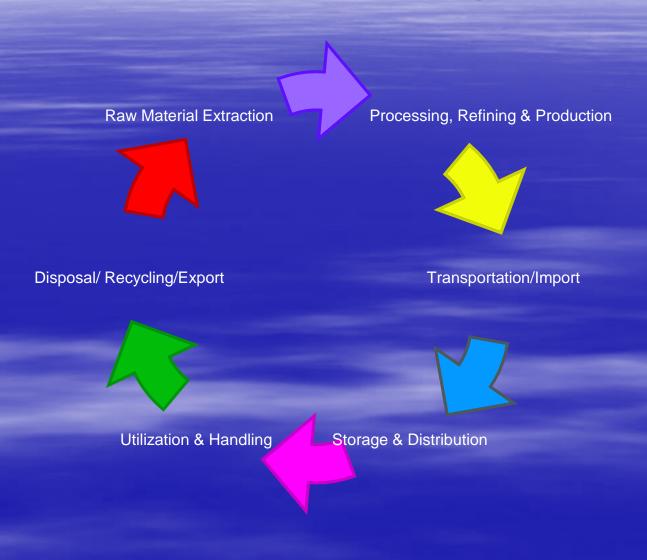


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"As easily as a fire warms, it harms; so too a chemical not properly used and disposed"

- Anonymous 2012

Chemical Life Cycle



Life Cycle Management

- Importation & Distribution
 - There is no formal labelling and classification system for all chemicals.
- Chemical Use & Handling
 - Chemicals not used in accordance with instructions and labels.
 - Lack of awareness of the proper use of personal protective equipment.

Life Cycle Management cont'd

Storage

- Management of chemicals does not appear to be a priority for most companies.
- Chemical storage needs to be better managed.
- Chemicals stored in poorly labelled containers.

Life Cycle Management cont'd

Disposal

 There are no treatment and disposal facilities for hazardous waste in Barbados.

 Local laboratory facilities lack the capacity to identify all hazardous waste.

Types of Chemicals Imported

- Insecticides
- Fungicides
- Herbicides
- Fertilizers
- Cleaning Agents
- Pharmaceuticals Medications
- Laboratory Reagents

HANDLING

- Personal Protective Equipment
- Assessing of Risks
- Routes of Exposure
- Compatibles/Incompatibles
- Training
- Instructions and applications
- Contingency Plans Emergency Procedures
- Standard Operating Procedures

STORAGE

- Compatibles/Incompatibles
- Ventilation
- Containment
- Security
- Storage Conditions
- Standard Operating Procedures

DISPOSAL

- Barbados does not have the capacity to adequately dispose of hazardous wastes.
- Barbados is a Party to:
 - Basel Convention
 - Stockholm Convention
- Barbados is signatory to:
 - Rotterdam Convention

Waste Disposal in Barbados

- Mangrove Pond Landfill
 - Municipal waste
- Lonesome Hill Disposal Site
 - Blood and grease
- Rock Hall Disposal Site
 - Asbestos containing waste and fibreglass

Role of EPD

- The EPD offers regulatory advice on the most suitable method of disposal of hazardous waste.
 - Letter requesting advice
 - List of chemicals to be disposed
 - SDS for the chemicals
 - Volume of chemicals for disposal
- Facilitates the shipment of hazardous wastes off island for disposal.

BASEL CONVENTION

- Governs the transboundary movement of hazardous wastes and their disposal.
- Barbados acceded to this Convention on August 24, 1995.
- The Convention aims to ensure that hazardous wastes are disposed in an environmentally sound manner.

Procedures for Shipment

- All chemicals must be identified according to the categories of the Basel Convention.
- Chemicals must appropriately packaged for shipment
- Transboundary Notification Documents must be completed and submitted to EPD
- Approval for the shipment from the port of import and ports of transit must be obtained before shipment can commence

LEGISLATION

- Radiation Protection (CAP 353A)
- Pesticides Control Act (CAP 395)
- Control of Standards Act (CAP 326A)
- Marine Pollution Control Act 1998
- Coastal Zone Management Act 1998
- Town and Country Planning Act
- The Barbados Water Authority Act
- Safety & Health at Work Act 2005

IMPACTS FROM IMPROPER MANAGEMENT

- Groundwater contamination
- Environmental Degradation
- Human Health
 - Disease potential
 - Bioaccumulation
 - Persistence

QUESTIONS



