

# HAZARDOUS CHEMICAL

## SUBSTANCES

### REGULATIONS: 1995

**CAUTION**

WEAR EYE PROTECTION  
RUBBER GLOVES AND  
APRONS WHEN HANDLING  
CHEMICALS



# LEARNING OBJECTIVES

**Students should be able to:**

- **Establish the presence of Haz. Chem. Substances.**
- **Recognize - Reports**
  - **Medical and Biological**
  - **Assessment**
  - **Monitoring**
- **When and How to refer**



# **DEFINITION: HAZARDOUS CHEMICAL SUBSTANCE**

- Any toxic, harmful, corrosive, irritating or asphixiant substance with :  
(a) a prescribed exposure limit.  
(b) or which have a detrimental effect on health.

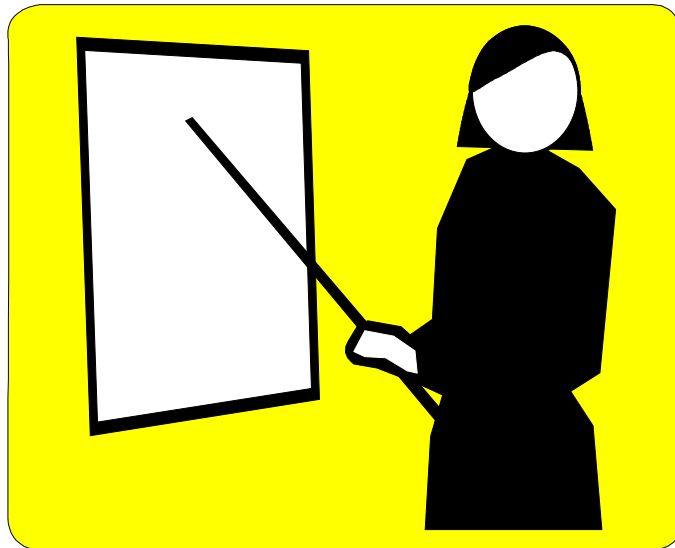
**Discuss examples:  
Household chemicals**



# **INFORMATION & TRAINING**

**Employer shall before exposure or potential exposure**

- ▶ **inform and train employees**
- ▶ **re-train at intervals**





# **DUTIES OF PERSONS WHO MAY BE EXPOSED TO HCS**

**Any person shall obey lawful instructions regarding:**

- (a) prevention of HCS release**
- (b) use of Personal Protective Clothing (PPC) & Equipment (PPE)**
- (c) wearing of monitoring equipment**



## **DUTIES OF PERSONS WHO MAY BE EXPOSED TO HCS**

- (d) reporting for evaluation & biological tests**
- (e) cleaning up and disposal of HCS containing materials**
- (f) housekeeping, personal hygiene,**
- (g) application of information & training**



# **ASSESSMENT OF POTENTIAL EXPOSURE**

**(1) Employer or self-employed person shall after consultation with H&S Rep, or Committee,**

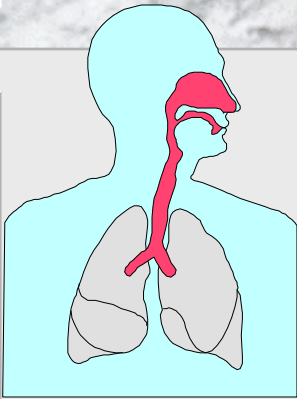
- have assessment made**
- repeat it every two years**

**to determine potential exposure by any route:**

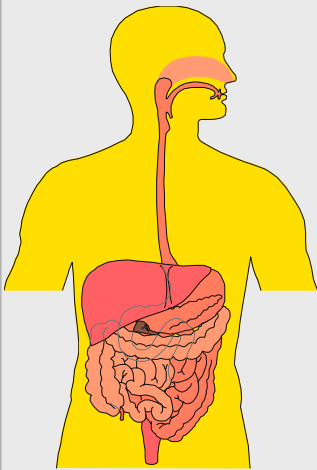
- Inhalation**
- Ingestion**
- Skin absorption**



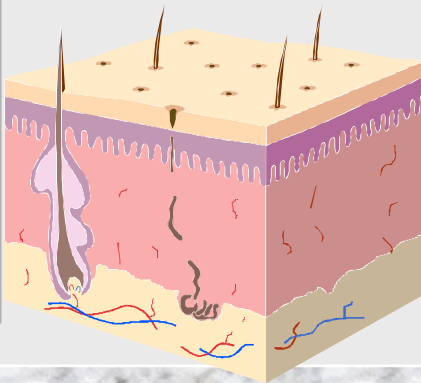
# ROUTES OF INTAKE



INHALATION



INGESTION



SKIN ABSORPTION



## **ASSESSMENT OF POTENTIAL EXPOSURE**

- (3) Keep records of assessment & take into account:**
  - (a) HCS potentially exposed to**
  - (b) potential effects of HCS**
  - (c) occurrence of HCS and physical form of HCS**
  - (d) routes of intake and extent of exposure**
  - (e) nature of the work, or process, deterioration in, or failure of, control measure**

## **AIR MONITORING**

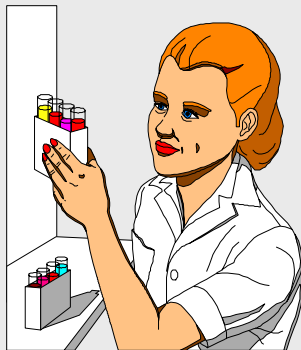
**(1) If assessment indicates potential exposure, a measurement program must be undertaken, which could include air monitoring.**



# MEDICAL SURVEILLANCE

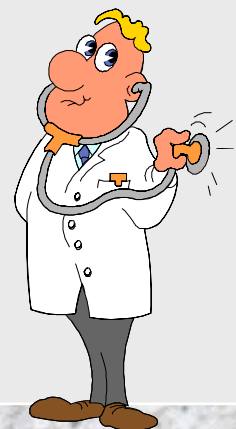
**(1) Employees must be under medical surveillance if:**

**(a) exposed to a chemical appearing in Table 3 of Annex 1 (Biological Exposure Indices).**



**(b) exposure to a chemical to such a degree that:**

**▸ an identifiable disease or adverse effect occurs.**





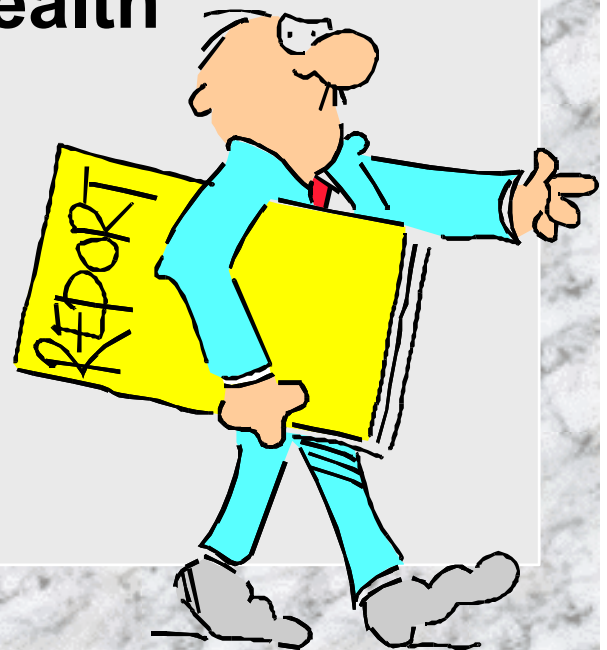
# RECORDS

**(1) An employer shall -**

**(a) keep records of:**

- **assessments**
- **air monitoring**
- **medical surveillance reports**
- **personal medical records**

**personal medical records only  
available to Occ. Health  
Practitioner**



# **RECORDS**

**(e) keep records of assessment and air monitoring for 30 years**

**(f) keep medical surveillance records for 30 years. If activities cease forward them to relevant Provincial Director**

**(g) keep records of investigations, tests and repairs to control measures for at least 3 years**