



DAY 2 - 12:45PM-1:30PM PDT

UNDERSTANDING CHEMICAL SAFETY:

WHMIS AND TDG

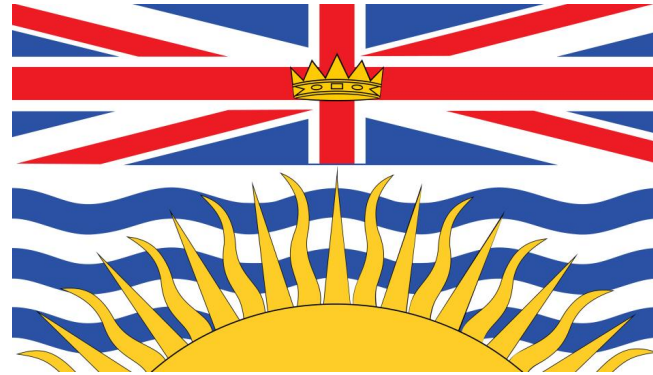


Understanding chemical safety

Many laws



Federal



Provincial



Municipal and
Regional District

Jurisdiction - Federal

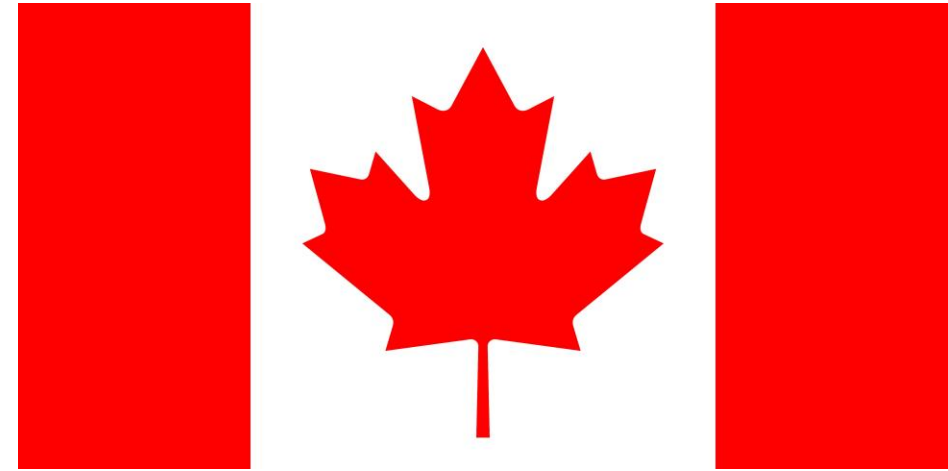


- Canada Consumer Product Safety Act and Hazardous Products Acts (HPA)
- A hazardous product is defined under the HPA.
- Labelling, Safety Data Sheets (SDS), Classification, etc.

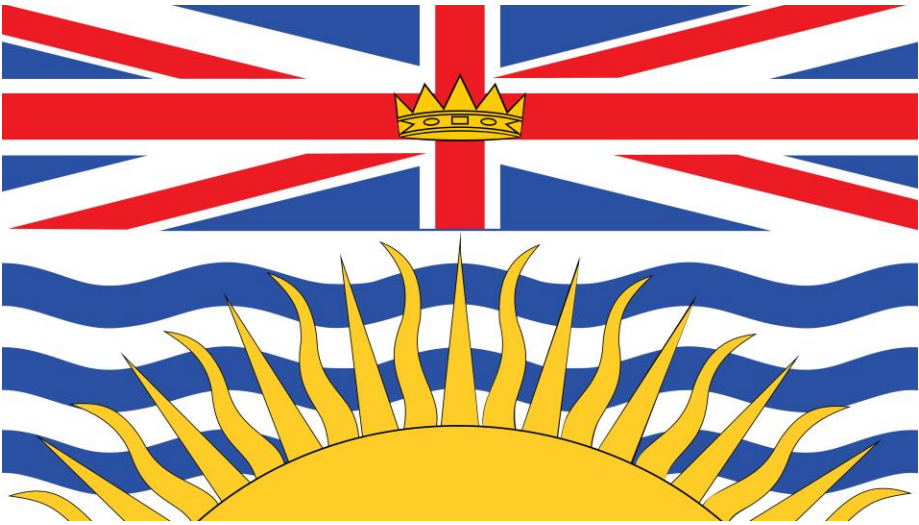


Jurisdiction - Federal

- Transportation of Dangerous Goods Act, 1992
- Fisheries Act
- Canadian Environmental Protection Act, 1999



Jurisdiction - Provincial



- Ministry of Labour
- WorkSafe BC
- Ministry of Environment & Climate Change Strategy

Jurisdiction- Municipal and Regional District

- Business licence
- Fire bylaws
- Environmental bylaws



Why is this topic important?

- Each year workers are injured or killed from incident related to chemicals in the workplace
- Workplaces are damaged due to fires relating to chemicals
- Environmental damage occurs as a result of improper use, storage or disposal of chemicals and other hazardous products



WorkSafeBC Incident 1



A worker drank from a drink bottle left in a delivery bay, assuming the liquid to be a beverage. The worker felt light-headed and called emergency services.

WorkSafeBC Incident 2

A worker was trying to remove a stain from a piece of linen. The worker mixed household bleach, an acidic cleanser, and hot water, which generated a cloud of chlorine gas. The worker, who threw up and had difficulty breathing, was transported to hospital by ambulance.



WorkSafeBC Incident 3



A drum of mixed chemicals in a warehouse spontaneously ignited, activating the fire suppression system. The fire department attended.

WorkSafeBC Incident 4

A flatbed tractor-trailer unit left the highway and went into the ditch. The truck was transporting flexible bladders containing phenol-formaldehyde resin used as adhesive in wood products manufacturing. About 18,000 kilograms were spilled.





HAZARDS

Hazard: not checking the pictograms



Depending on the chemical, it may have one or more pictograms on the container that outlines the hazards associated with these chemicals.

Hazard labelling and storage

- Illegible labelling of chemicals makes it difficult to identify what chemical you are dealing with
- Some chemicals react with others and are required to be stored separately



Hazard: lack of or improper PPE



- Gloves, hardhats, safety vest, coveralls may not protect you from the hazards of a chemical. Check the SDS to confirm the PPE needs
- If using a respirator, make sure to use the correct cartridge

Hazard fire

- The Hazardous Product Regulations (HPR) has classifications for Flammable Gases, Aerosols, Liquids, and Solids
- Check the Safety Data Sheet (SDS) for chemicals flammable classification and its related fire fighting measures



Hazard spills



- Chemical spills can cause a slip, trip and fall hazards for workers
- They can also create environmental concerns and damage e.g., kill fish, destroy plants, etc.

Call to action/next steps



NEXT
STEPS

- Education and Training
- Safety Data Sheets
- Labels
- Hazardous Waste
- Environment and fire hazard



Education and Training – WHMS



- OHSR Part 5 outlines the requirements for WHMIS education and training
- Education is more theory and training is more practical

Education and Training – TDG

- Must be adequately trained or under direct supervision of someone trained
- Must take a prescribed course depending on what you are doing
- Training certificate good for 24 to 36 months depending on factors



Safety Data Sheets (SDS)



- SDS must be readily available to workers exposed by hazardous products
- Consult with JHSC or WHSR on best way to achieve SDS accessibility

Labels

- All products should have a supplier label that is legible
- When you decant a product install a workplace label

PRODUCT IDENTIFIER

HAZARD INFORMATION

PERSONAL PROTECTION REQUIRED WHEN HANDLING

SEE MATERIAL SAFETY DATA SHEET (MSDS)

Hazardous waste



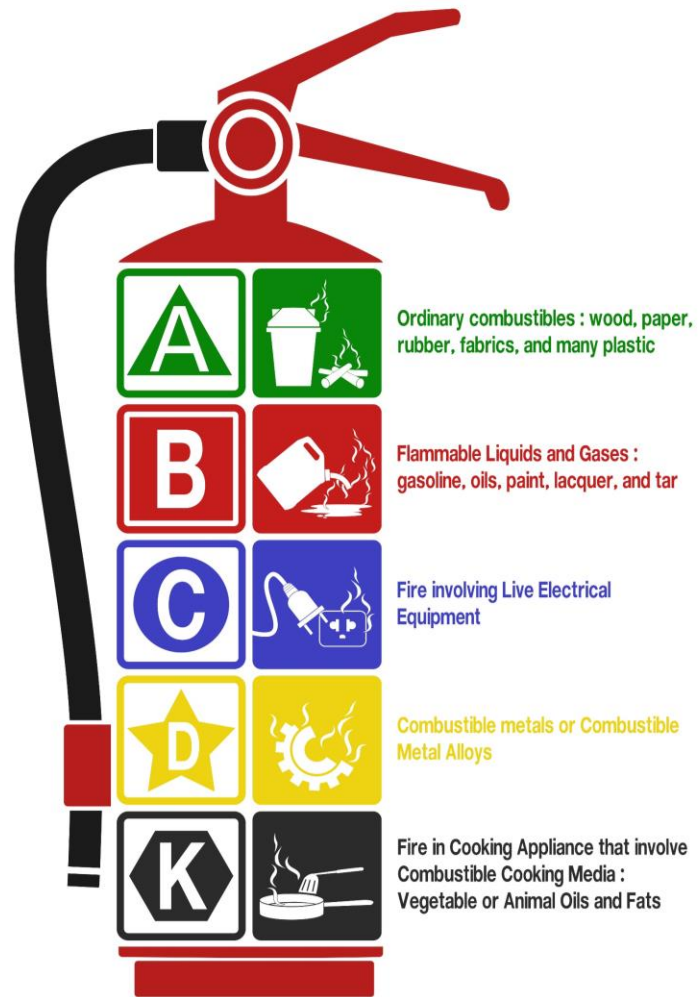
Hazardous waste means a hazardous product that is acquired or generated for recycling or recovery or is intended for disposal.

Environmental hazard

- Hazardous products and hazardous waste must be stored to prevent spillage
- When a spill occurs, you need a plan on how to respond



Storage and fire hazards



- Store hazardous products as per the SDS and HPR
- Have the appropriate fire extinguisher available based on the fire hazard
- Train your staff on how to use a fire extinguisher

Q & A

MIS
MAKE IT SAFE

THANKYOU

For more information, please contact:

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