



**W.H.M.I.S.
1988 & 2015**



**“Workplace Hazardous Materials
Information System”**

WHMIS — What we will learn today:

- What is WHMIS - Right to know
- Hazard Communications System
- Purpose of WHMIS:
 - to provide information on hazardous materials
 - to identify hazards and
 - to ensure the consistency of information in all Canadian workplaces

WHMIS - YOUR RIGHT TO KNOW

**THE RIGHT TO KNOW! ABOUT ANY DANGER TO
YOUR HEALTH & SAFETY AT WORK!**

HOW DOES WHMIS PROTECT YOU?

- Understand labels
- Recognize symbols and the hazards they represent
- Seek additional information on MSDS/SDSs
- Follow safe work procedures

WHMIS – THE CHANGING LAW



WHMIS 2015 is an update of the WHMIS we have known (WHMIS 1988);

WHMIS 2015 is currently “in force”, but also “in transition”

Has new information to meet requirement of the “Global Harmonized System”

Very similar to WHMIS 1988

Information System:

- **Classes/Symbols**
- **Labels**
- **1988: Material Safety Data Sheets (M.S.D.S.)**
- **2015: Safety Data Sheets (SDS)**
- **Training**



Responsibilities

- Suppliers
- Employer
- Worker



Supplier

- Classify
- Label
- MSDS/SDS



Employer Responsibilities

- Workplace inventory
- Assessment
- Workplace labels
- MSDS/SDS
- Worker Education



Worker Responsibilities

- Participate in training
- Apply knowledge



Controlled Products

- Contains an ingredient that is on the ingredients disclosure list.
- Contains an ingredient that the supplier believes is harmful.
- 1988: 8 pictograms for classifying hazardous materials.
- 2015: 10 pictograms

When you see a WHMIS label:

Product K1 / Produit K1



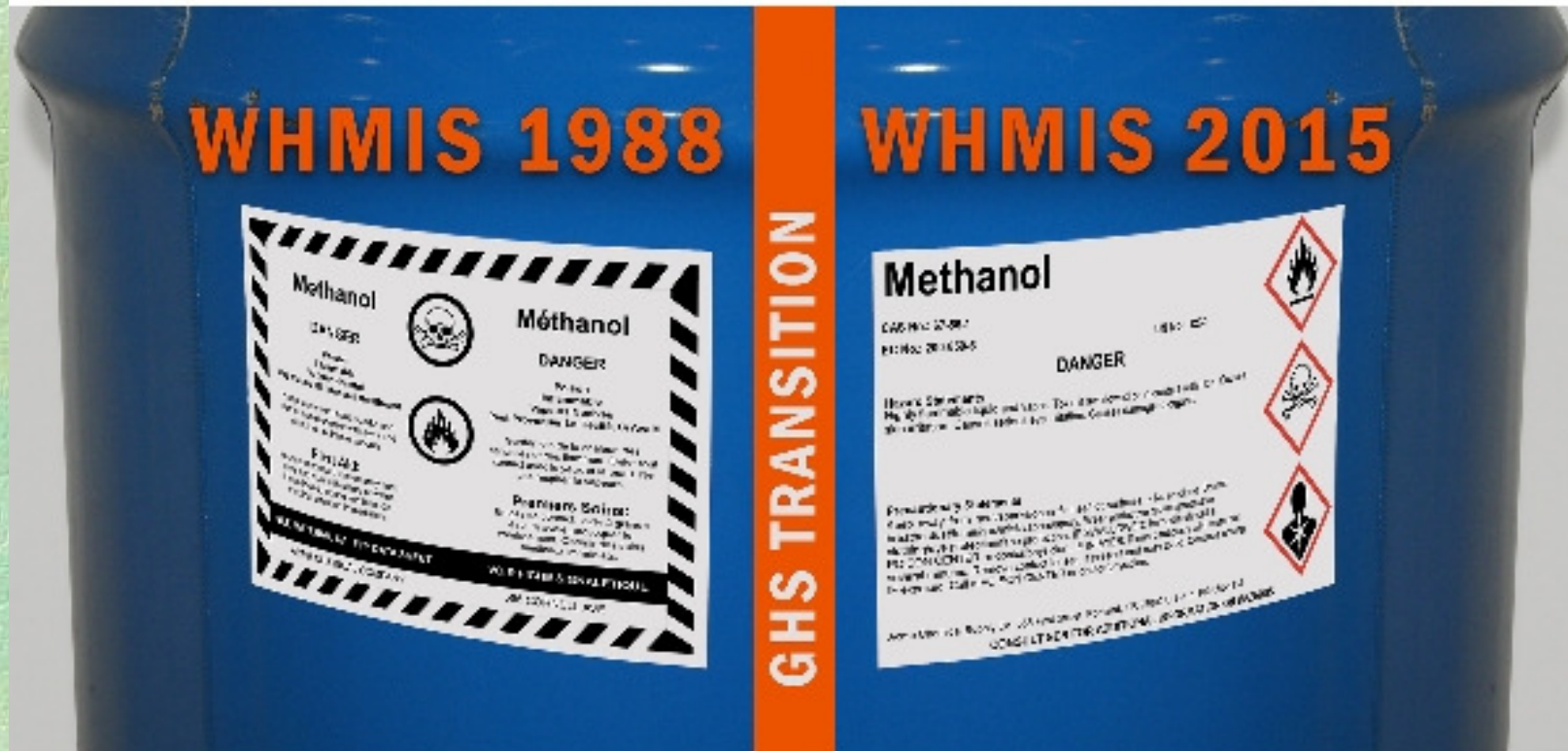
Danger Fatal if swallowed. Causes skin irritation.	Danger Mortel en cas d'ingestion. Provoque une irritation cutanée.
Precautions: Wear protective gloves. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.	Consells : Porter des gants de protection. Se laver les mains soigneusement après manipulation. Ne pas manger, boire ou fumer en manipulant ce produit.
Store locked up. Dispose of contents/containers in accordance with local regulations.	Garder sous clef. Éliminer le contenu/récipient conformément aux règlements locaux en vigueur.
IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Rinse mouth.	EN CAS DE CONTACT AVEC LA PEAU : Laver abondamment à l'eau. En cas d'irritation cutanée : Demander un avis médical/consulter un médecin. Enlever les vêtements contaminés et les laver avant réutilisation. EN CAS D'INGESTION : Appeler immédiatement un CENTRE ANTIPOISON ou un médecin. Rincer la bouche.

Compagnie XYZ, 123 rue Machin St, Mytown, ON, N0N 0N0 (123) 456 7890

STOP! Think
Do I know the Hazard?
Do I need more information?

LABELS:

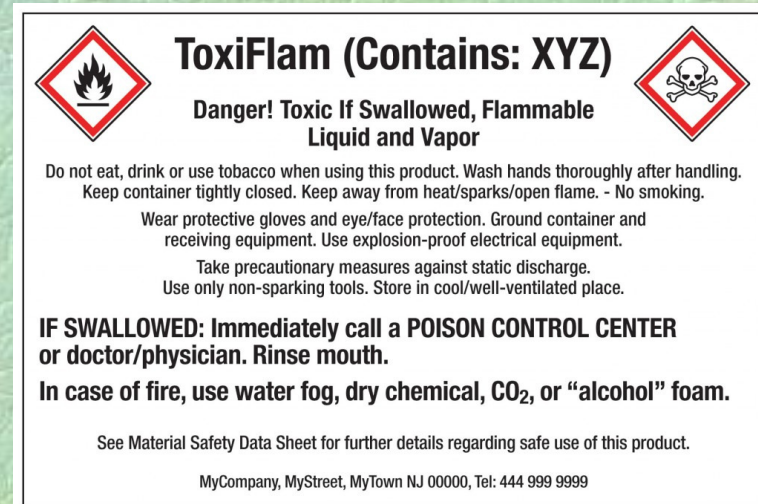
Supplier Label – 1988 & 2015



LABELS:

Supplier Label

1. A product identifier (name)
2. Hazard symbol(s)
3. Signal Word
4. Hazard Statements
5. Precautionary Statements
6. Supplier identifier



LABELS:

Supplier Label

- Products must arrive with them
- Labels must remain on containers
- If label is destroyed, it must be replaced with another supplier label or a workplace label
- Can only store (not use) product while actively seeking labels or MSDS
- Differentiated from other labelling on the container
- French and English.

LABELS:

Supplier Label (Exceptions)

- Imported products or inner container, these must be labeled with equivalent to supplier labels
- Bulk shipments, labels may be sent with the shipment
- NON-WHMIS PRODUCTS: explosives, cosmetics, foods, drugs, consumer products, prescribed substances

LABELS:

Workplace Label - Used When

- Product produced by employer
- Product decanted to smaller containers
- Supplier label is removed or destroyed

LABELS:

Workplace Label - Must Have

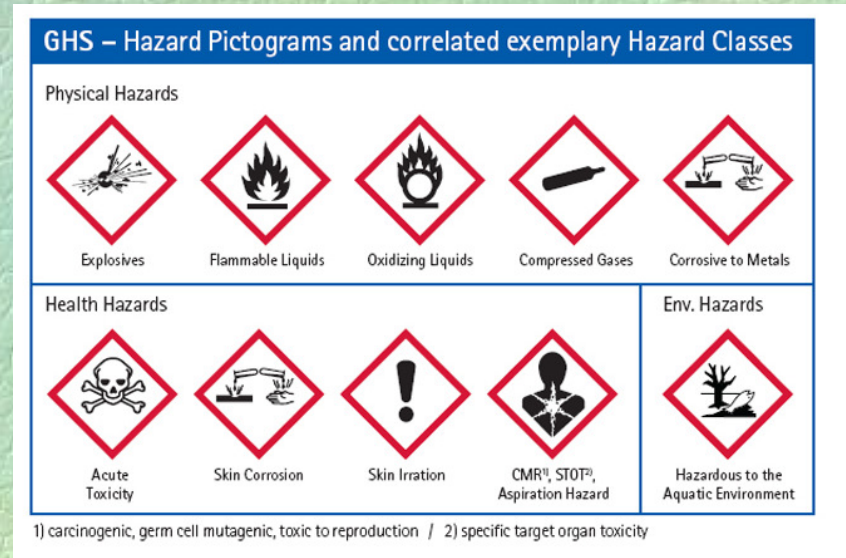
- Product Name
- Information on safe handling
- (2015: Signal Word)
- Reference to MSDS/SDS
- May contain the WHMIS hazard symbol

HAZARD CLASSIFICATIONS



WHMIS 2015: New Major Hazard Groups

- Physical Hazards
- Health Hazards
- Environmental Hazards



Symbols & Classes



1988: Class A - Compressed gas



2015: Gas Cylinder

(Gases under pressure)

Symbols & Classes



1988: Class B – Combustible and Flammable Material



2015: Flame

(Fire Hazard - Flammable gases, aerosols, liquids, solids; Pyrophoric solids liquids, gases, self-heating substances and mixtures, substances and mixtures, when in contact with water, emit flammable gases, self-reactive substances and mixtures; organic peroxides)

Symbols & Classes



1988: Class C – Oxidizing Material



2015: Flame Over Circle

(Oxidizing gases, liquids, solids)

Symbols & Classes



1988: Class D, Division 1 –
Poisonous and Infectious Material
with immediate serious toxic effects



2015: Skull and Crossbones

(Acute toxicity – oral, dermal, inhalation. May cause death or toxicity with a short exposure to small amounts)

Symbols & Classes



1988: Class D, Division 2 –
Poisonous and Infectious
Material, Other Toxic Effects



2015: Exclamation Mark

(Acute toxicity – oral, dermal, inhalation; May cause less serious health effects. Skin corrosion/irritation; Serious eye damage/eye irritation; Respiratory or skin sensitization; specific target organ toxicity)

Symbols & Classes



1988: Class D, Division 2 –
Poisonous and Infectious Material,
Biohazardous Infectious Material



2015: Biohazardous Infectious
Material

(Biohazardous Infectious Material; organisms or toxins that
can cause disease in people or animals)

Symbols & Classes



1988: Class E – Corrosive Material



2015: Corrosive

(Corrosive to metals, skin corrosion/irritation, Serious eye damage/eye irritation)

Symbols & Classes



1988: Class F – Dangerously
Reactive Material

(Unstable if reacts very strongly and quickly with water to make a toxic gas; reacts with itself when it gets shocked, bumped or dropped or if temperature or pressure increases; vigourously joins to itself, break down, or become more dense

Symbols & Classes



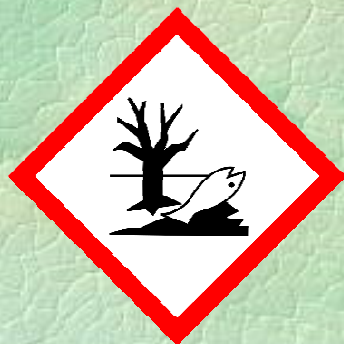
2015: Exploding Bomb

(explosive or reactive hazards)



2015: Health Hazard

(May cause or suspected of causing serious health effects: Respiratory or skin sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, specific target organ toxicity – single and repeated exposures, aspiration hazards)



2015: Environment (non-mandatory)

(Hazardous to aquatic environment and the ozone layer)

MSDS/SDS

- Material can only be stored while waiting for the MSDS/SDS
- 1988: MSDS`s must not be more than 3 years old and updated within 90 days of receiving new information.
- 2015: SDS do not expire
- Must be accessible and available at the workplace

MSDS/SDS

For employees, 4 main purposes:

- identify the product,
- know the physical and health hazards
- how to protect from exposure
- emergency response measures

MSDS Information

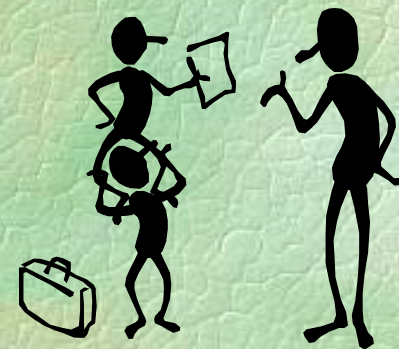
1. Product Information
2. Hazardous Ingredients
3. Physical Data
4. Fire or Explosion Hazard Data
5. Reactivity Data
6. Toxicological Properties
7. Preventive Measures
8. First Aid Measures
9. Preparation Information

SDS Information

1. Product Identification
2. Hazard Identification
3. Composition Information
4. First Aid Information
5. Fire Fighting Measures
6. Accidental Release Measures
7. Handling and Storage
8. Exposure Controls/Personal Protection
9. Physical and Chemical Properties
10. Stability and Reactivity
11. Toxicological Information
12. Ecological Information
13. Disposal Considerations
14. Transport Information
15. Regulatory Information
16. Other Information

Employers' Responsibility for Training

- Provide education and training for workers who work with or close to a controlled product.
- General portable information as well as job specific information on WHMIS products
- Provide refresher as needed



Workers' Responsibility for Training

- Workers must understand and demonstrate the purpose and significance of information on labels and MSDS/SDS
- Know procedures for safe use and disposal
- Know procedures for emergency situations





WHMIS CERTIFICATION

Thank you!!!

