

WHMIS AFTER GHS



COURSE MODULES

- INTRODUCTION
- DUTIES AND RESPONSIBILITIES
- HAZARD CLASSIFICATION AND PICTOGRAMS
- LABELS
- SAFETY DATA SHEETS (SDSs)



INTRODUCTION

WHAT IS GHS?



G LOBALLY

H ARMONIZED

S YSTEM OF CLASSIFICATION AND
LABELLING OF CHEMICALS



INTRODUCTION

CANADA HAS ALIGNED THE
WORKPLACE HAZARDOUS
MATERIALS INFORMATION SYSTEM
(WHMIS) WITH (GHS).



INTRODUCTION



- THE WHMIS 2015 LEGISLATION IS CURRENTLY IN FORCE
- SUPPLIERS MAY BEGIN TO USE AND FOLLOW THE NEW REQUIREMENTS



MODULE OUTCOMES

BY THE END OF THIS MODULE YOU WILL BE ABLE TO:

- DEFINE WHMIS
- RECALL MAIN COMPONENTS OF WHMIS



INTRODUCTION

WORKER RIGHTS

- RIGHT TO KNOW
- RIGHT TO PARTICIPATE
- RIGHT TO REFUSE UNSAFE WORK



INTRODUCTION

RIGHT TO KNOW

WORKERS HAVE THE RIGHT TO:

- KNOW ABOUT DANGERS AND HAZARDS
- INFORMATION REGARDING HAZARDS
- ASK QUESTIONS ABOUT SAFETY



INTRODUCTION

RIGHT TO PARTICIPATE



THE RIGHT TO PARTICIPATE IS DEMONSTRATED BY:

- INVOLVEMENT IN SAFETY AND HEALTH
- COMMITTEES AND REPRESENTATIVES



INTRODUCTION

RIGHT TO REFUSE UNSAFE WORK

- LEGAL RIGHT AND PROCESS
- MECHANISM FOR ACTIONING DANGEROUS CONDITIONS



W ORKPLACE
H AZARDOUS
M ATERIALS
I NFORMATION
S YSTEM



INTRODUCTION

PURPOSE OF WHMIS

- PROVIDES INFORMATION ON HAZARDOUS MATERIALS
- FACILITATES THE PROCESS OF HAZARD IDENTIFICATION
- ENSURES CONSISTENCY OF INFORMATION



INTRODUCTION

ALIGNING WHMIS TO GHS

THE WHMIS SYSTEM HAS BEEN MODIFIED TO INCLUDE COMPONENTS FROM THE GHS SYSTEM, INCLUDING:

- HAZARD CRITERIA
- CLASSIFICATION PROCESS
- COMMUNICATION SYSTEMS



INTRODUCTION

ALIGNING WHMIS TO GHS

ALIGNING WHMIS TO GHS CRITERIA WILL BENEFIT:

- GOVERNMENTS
- COMPANIES
- WORKERS
- CONSUMERS



INTRODUCTION

LEGISLATION

- APPLIES TO ALL WORKPLACES ACROSS CANADA
- FEDERALLY ENFORCED THROUGH THE CANADA LABOUR CODE
- PROVINCIALY ENFORCED THROUGH HEALTH AND SAFETY AGENCIES



INTRODUCTION

INFORMATION SYSTEM

WORKERS REQUIRE AN
INFORMATION SYSTEM THAT IS:

- TIMELY (PICTOGRAMS)
- ACCURATE (SDS)
- CONSISTENT (UNIVERSAL)



INTRODUCTION

WHMIS COMPONENTS

- PICTOGRAMS
- LABELS
- SAFETY DATA SHEETS (SDS)
- EDUCATION AND TRAINING



INTRODUCTION

WHMIS LABELS

- SUPPLIER
- WORKPLACE



INTRODUCTION

SAFETY DATA SHEET (SDS)

SDS PROVIDE INFORMATION
THAT IS:

- ACCURATE
- RELIABLE
- TRUSTWORTHY



INTRODUCTION

WHMIS TRAINING

TRAINING PROVIDES WORKERS
WITH KNOWLEDGE OF:

- SAFE HANDLING
- PERSONAL PROTECTIVE EQUIPMENT
- EMERGENCY PROCEDURES
- FIRST AID MEASURES



DUTIES AND RESPONSIBILITIES



MODULE OUTCOMES

BY THE END OF THIS MODULE YOU WILL BE ABLE TO IDENTIFY THE DUTIES AND RESPONSIBILITIES OF:

- SUPPLIERS
- EMPLOYERS
- WORKERS



DUTIES & RESPONSIBILITIES

SUPPLIERS

- CLASSIFY HAZARDOUS PRODUCTS
- PREPARE LABELS & SDS
- PROVIDE THEM TO CUSTOMERS



DUTIES & RESPONSIBILITIES

EMPLOYER

- PROVIDE TRAINING ON HAZARDOUS MATERIALS
- ENSURE HAZARDOUS MATERIALS ARE LABELED
- PREPARE LABELS AND SDS
- ENSURE SDS ARE ACCESSIBLE
- IMPLEMENT CONTROLS



DUTIES & RESPONSIBILITIES

WORKERS

PARTICIPATE IN

- TRAINING
- YOUR OWN SAFETY
- IDENTIFYING HAZARDS



WHMIS

PENALTIES

- TICKETS
- FINES
- JAIL TIME



SUMMARY

- SUPPLIER, EMPLOYER AND WORKERS DUTIES AND RESPONSIBILITIES UNDER WHMIS
- PENALTIES



CHEMICAL CLASSIFICATION & PICTOGRAMS



MODULE OUTCOMES

BY THE END OF THIS MODULE YOU WILL BE ABLE TO:

- DEFINE CLASSIFICATION
- IDENTIFY HAZARD GROUPS, CLASSES AND CATEGORIES/TYPES
- CLASSIFY HAZARD PICTOGRAMS



HAZARD CLASSIFICATION

- STARTING POINT OF HAZARD COMMUNICATION
- IDENTIFIES THE HAZARD OF THE CHEMICAL OR MIXTURE



WHMIS 2015 CLASSIFICATIONS

HAZARD GROUP

HAZARD CLASS

HAZARD CATEGORY



WHMIS 2015 CLASSIFICATIONS

HAZARD GROUPS

- PHYSICAL
- HEALTH
- ENVIRONMENTAL (NOT ADOPTED)



WHMIS 2015 CLASSIFICATIONS

HAZARD CLASS

- GROUPING OF PRODUCTS WITH SIMILAR PROPERTIES
- 16 PHYSICAL HAZARDS (3 ADDITIONAL)
- 10 HEALTH HAZARDS (2 ADDITIONAL)



WHMIS 2015 CLASSIFICATIONS

HAZARD CATEGORY

- IDENTIFIES HOW HAZARDOUS THE PRODUCT IS
- ASSIGNED CATEGORIES (NUMBERS) OR TYPES (LETTERS)



WHMIS 2015 CLASSIFICATIONS

HAZARD CATEGORY

- ASSIGNED A NUMBER ON SEVERITY OF HAZARD
- CATEGORY 1 BEING THE MOST HAZARDOUS

HAZARD TYPE

- ASSIGNED A LETTER BASED ON SEVERITY OF HAZARD
- CATEGORY A BEING THE MOST HAZARDOUS



WHMIS 1988 SYMBOLS



CLASS A
COMPRESSED GAS



CLASS B
FLAMMABLE AND
COMBUSTIBLE



CLASS C
OXIDIZING
MATERIAL



CLASS D1
IMMEDIATE AND
TOXIC EFFECTS



CLASS D2
OTHER TOXIC
EFFECTS



CLASS D3
BIOHAZARDOUS
AND INFECTIOUS



CLASS E
CORROSIVE



CLASS F
DANGEROUSLY
REACTIVE



WHMIS 2015 PICTOGRAMS



EXPLODING
BOMB



GAS CYLINDER



EXCLAMATION
MARK



FLAME



CORROSIVE



HEALTH
HAZARD



FLAME OVER
CIRCLE



SKULL AND
CROSSBONES



ENVIRONMENT



PICTOGRAMS

- BLACK SYMBOL, RED FRAME
- WHITE BACKGROUND
- CONVEYS HAZARD INFORMATION



PHYSICAL HAZARD GROUP

FLAMMABLE CLASS

- GASES (CATEGORY 1)
- AEROSOLS (CATEGORY 1, 2)
- LIQUIDS (CATEGORY 1, 2, 3)
- SOLIDS (CATEGORY 1, 2)
- ORGANIC PEROXIDES TYPE B, C, D, E, F



PHYSICAL HAZARD GROUP

OXIDIZING CLASS

- GASES (CATEGORY 1)
- LIQUIDS (CATEGORY 1, 2, 3)
- SOLIDS (CATEGORY 1, 2, 3)



FLAME OVER CIRCLE



PHYSICAL HAZARD GROUP

GASES UNDER PRESSURE CLASS

- COMPRESSED
- LIQUEFIED
- DISSOLVED
- REFRIGERATED



PHYSICAL HAZARD GROUP

SELF-REACTIVE SUBSTANCES AND MIXTURES CLASS

- REACT ON THEIR OWN TO CAUSE FIRE OR EXPLOSION
- TYPE A, B
- ORGANIC PEROXIDES TYPE A, B



EXPLODING BOMB



PHYSICAL HAZARD GROUP

PYROPHORIC CLASS

- CATCH FIRE SPONTANEOUSLY IF EXPOSED TO AIR
- GASES, LIQUIDS, SOLIDS
- CATEGORY 1



PHYSICAL HAZARD GROUP

SELF-HEATING SUBSTANCES AND MIXTURES CLASS

- CAN CATCH FIRE
SPONTANEOUSLY IF EXPOSED TO
AIR
- GASES, LIQUIDS, SOLIDS
- CATEGORY 1, 2



PHYSICAL HAZARD GROUP

CONTACT WITH WATER EMIT FLAMMABLE GAS CLASS

- PRODUCTS REACT WITH WATER
EMIT A FLAMMABLE GAS
- MAY IGNITE SPONTANEOUSLY
- CATEGORY 1, 2, 3



PHYSICAL HAZARD GROUP

ORGANIC PEROXIDES CLASS

- MAY CAUSE A FIRE OR EXPLOSION IF HEATED
- TYPES B, C, D, E, F



FLAME OVER CIRCLE



PHYSICAL HAZARD GROUP

CORROSIVE TO METALS CLASS

- CHEMICAL MAY DESTROY METAL
- CATEGORY 1



PHYSICAL HAZARD GROUP

ADDITIONAL PHYSICAL CLASSES

- COMBUSTIBLE DUST
- SIMPLE ASPHYXIANTS
- PHYSICAL HAZARDS NOT OTHERWISE CLASSIFIED



HEALTH HAZARD GROUP

ACUTE TOXICITY CLASS

- FATAL, TOXIC OR HARMFUL IF SWALLOWED
- ORAL, DERMAL, INHALATION (CATEGORY 1, 2, 3)



SKULL & CROSSBONES



HEALTH HAZARD GROUP

ACUTE TOXICITY CLASS

- ORAL, DERMAL, INHALATION
- CATEGORY 4



EXCLAMATION MARK



HEALTH HAZARD GROUP

SKIN CORROSION/IRRITATION CLASS

- CAUSES SEVERE SKIN BURNS OR IRRITATION
- SKIN CORROSION/IRRITATION CATEGORY 1, 1A, 1B, 1C



CORROSIVES



HEALTH HAZARD GROUP

SKIN CORROSION/IRRITATION CLASS

- SKIN IRRITATION CATEGORY 2



EXCLAMATION MARK



HEALTH HAZARD GROUP

SERIOUS EYE DAMAGE/IRRITATION

- CAUSES SERIOUS EYE DAMAGE OR IRRITATION
- CATEGORY 1



CORROSIVES



HEALTH HAZARD GROUP

SERIOUS EYE DAMAGE/IRRITATION

- EYE IRRITATION CATEGORY 2, 2A



EXCLAMATION MARK



HEALTH HAZARD GROUP

RESPIRATORY OR SKIN SENSITIZATION – RESPIRATORY

- MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS, BREATHING DIFFICULTIES
- CATEGORY 1, 1A, 1B



HEALTH HAZARD



HEALTH HAZARD GROUP

RESPIRATORY OR SKIN SENSITIZATION – SKIN SENSITIZATION

- MAY CAUSE ALLERGIC SKIN REACTION
- CATEGORY 1, 1A, 1B



EXCLAMATION MARK



HEALTH HAZARD GROUP

GERM CELL MUTAGENICITY

- MAY CAUSE OR SUSPECTED OF CAUSING GENETIC DEFECTS
- CATEGORY 1, 1A, 1B, 2



HEALTH HAZARD



HEALTH HAZARD GROUP

CARCINOGENICITY

- MAY CAUSE OR SUSPECTED OF CAUSING CANCER
- CATEGORY 1, 1A, 1B, 2



HEALTH HAZARD



HEALTH HAZARD GROUP

REPRODUCTIVE TOXICITY

- MAY DAMAGE OR ARE SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD
- CATEGORY 1, 1A, 1B, 2



HEALTH HAZARD



HEALTH HAZARD GROUP

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE

- MAY CAUSE DAMAGE TO ORGANS FOLLOWING A SINGLE EXPOSURE (LIVER, KIDNEY, BLOOD)
- MAY CAUSE RESPIRATORY IRRITATION, DIZZINESS, DROWSINESS
- CATEGORY 1, 2



HEALTH HAZARD



HEALTH HAZARD GROUP

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE

○ CATEGORY 3



EXCLAMATION MARK



HEALTH HAZARD GROUP

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE

- MAY CAUSE DAMAGE TO ORGANS FOLLOWING PROLONGED EXPOSURE (LIVER, KIDNEY, BLOOD)
- CATEGORY 1, 2



HEALTH HAZARD



HEALTH HAZARD GROUP

ASPIRATION HAZARD

- MAY BE FATAL IF SWALLOWED AND ENTER AIRWAYS
- CATEGORY 1



HEALTH HAZARD



HEALTH HAZARD GROUP

BIOHAZARDOUS INFECTIOUS MATERIALS

○ CATEGORY 1



ENVIRONMENTAL HAZARD GROUP

DAMAGE TO THE AQUATIC ENVIRONMENT

- ENVIRONMENTAL TOXICITY
- NOT ADOPTED IN CANADA



ENVIRONMENTAL



ADDITIONAL CLASSES

NO PICTOGRAMS REQUIRED

FLAMMABLE GASES	CATEGORY 2
FLAMMABLE LIQUIDS	CATEGORY 4
SELF-REACTIVE SUBSTANCES AND MIXTURES	TYPE G
ORGANIC PEROXIDES	TYPE G
COMBUSTIBLE DUSTS	CATEGORY 1
SIMPLE ASPHYXIANTS	CATEGORY 1
SERIOUS EYE DAMAGE/IRRITATION	EYE IRRITATION – CATEGORY 2B
REPRODUCTIVE TOXICITY	EFFECTS ON OR VIA LACTATION



EXERCISE

HAZARD GROUP

ACUTE TOXICITY	HEALTH
SKIN CORROSION	HEALTH
OXIDIZING LIQUIDS	PHYSICAL
EYE IRRITATION	HEALTH
CORROSIVE TO METALS	PHYSICAL
FLAMMABLE SOLIDS	PHYSICAL
ASPIRATION HAZARD	HEALTH
GASES UNDER PRESSURE	PHYSICAL



EXERCISE

MATCHING EXERCISE

	SKULL AND CROSSBONES		HEALTH HAZARD		FLAME OVER CIRCLE
	ENVIRONMENTAL		CORROSIVE		FLAME
	EXCLAMATION MARK		GAS CYLINDER		EXPLOSIVE



SUMMARY

- HAZARD GROUPS, CLASSES AND CATEGORIES
- HAZARD PICTOGRAMS



HAZARD COMMUNICATION



MODULE OUTCOMES

BY THE END OF THIS MODULE YOU WILL BE ABLE TO:

- RECALL STANDARDIZED ELEMENTS OF A WHMIS SUPPLIER LABEL
- RECALL REQUIRED ELEMENTS ON A WORKPLACE LABEL
- IDENTIFY SIGNAL WORDS, HAZARD AND PRECAUTIONARY STATEMENTS



HAZARD COMMUNICATION

THE HAZARD COMMUNICATION SYSTEM COMPRISED OF:

- LABELS
- EASILY UNDERSTANDABLE PICTOGRAMS
- SAFETY DATA SHEETS (SDS)



LABELS

TYPES OF LABELS

- SUPPLIER
- WORKPLACE



Product X / Produit X



DANGER

Fatal if swallowed.
Causes skin irritation.

Precautions:

Wear protective gloves.
Wash hands thoroughly
after handling.
Do not eat, drink or
smoke when using this
product.

Store locked up.
Dispose of
contents/containers in
accordance with local
regulations.

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.

DANGER

Mortel en cas d'ingestion.
Provoque une irritation
cutanée.

Conseils:

Porter des gants de protection.
Se laver les mains soigneusement
après manipulation.
Ne pas manger, boire ou fumer en
manipulant ce produit.

Garder sous clef.
Éliminer le contenu/réceptacle
conformément aux règlements
locaux en vigueur.

**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 laver avant réutilisation.

EN CAS D'INGESTION : Appeler
immédiatement un CENTRE
ANTIPOISON ou un médecin.
Rincer la bouche

Company, 123 street, Toronto, ON N0N 0N0 (123) 456-7890

LABELS

Supplier Responsibilities

○ LABEL HAZARDOUS PRODUCTS

Product X / Produit X

**ANGER**

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ANTIPOISON ou un médecin.
Rincer la bouche

Company, 123 street, Toronto, ON N0N 0N0 (123) 456-7890



LABELS

Employer Responsibilities

- ENSURE HAZARDOUS PRODUCTS ARE LABELED
- PREPARE AND APPLY WORKPLACE LABELS



SUPPLIER LABELS

Requirements

- ATTACHED ON ALL HAZARDOUS PRODUCTS
- ENGLISH AND FRENCH

HATCHED BORDER NO LONGER REQUIRED



Product X / Produit X



DANGER

Fatal if swallowed.
Causes skin irritation.

Precautions:

Wear protective gloves.
Wash hands thoroughly
after handling.
Do not eat, drink or
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product.

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Ne pas manger, boire ou fumer en
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Rincer la bouche

Company, 123 street, Toronto, ON N0N 0N0 (123) 456-7890

SUPPLIER LABEL

PRODUCT IDENTIFIER



ToxiFlam (Contains: XYZ)



Danger! Toxic If Swallowed, Flammable Liquid and Vapor

Do not eat, drink or use tobacco when using this product. Wash hands thoroughly after handling. Keep container tightly closed. Keep away from heat/sparks/open flame. No smoking. Wear protective gloves and eye/face protection. Ground container and receiving equipment. Use explosion-proof electrical equipment. Take precautionary measures against static discharge.

Use only non-sparking tools. Store in cool/well-ventilated place

If Swallowed: Immediately call a POISON CONTROL CENTER or doctor/physician. Rinse mouth.

In case of fire, use water fog, dry chemical, CO₂, or "alcohol" foam.

See Safety Data Sheet for further details regarding safe use of this product.

MyCompany, MyStreet, MyTown NJ 00000, Tel: 444 999 9999

SUPPLIER LABEL

SUPPLIER IDENTIFIER



ToxiFlam (Contains: XYZ)



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SUPPLIER LABEL

PICTOGRAMS



ToxiFlam (Contains: XYZ)

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SUPPLIER LABEL

SIGNAL WORD



ToxiFlam (Contains: XYZ)



Danger! Toxic If Swallowed, Flammable Liquid and Vapor

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SUPPLIER LABEL

SIGNAL WORDS

- “DANGER” – HIGH RISK HAZARDS
- “WARNING” – LESS SEVERE



SUPPLIER LABEL

HAZARD STATEMENT



ToxiFlam (Contains: XYZ)



Danger! Toxic If Swallowed, Flammable Liquid and Vapour

Do not eat, drink or use tobacco when using this product. Wash hands thoroughly after handling. Keep container tightly closed. Keep away from heat/sparks/open flame. No smoking. Wear protective gloves and eye/face protection. Ground container and receiving equipment. Use explosion-proof electrical equipment. Take precautionary measures against static discharge.

Use only non-sparking tools. Store in cool/well-ventilated place

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In case of fire, use water fog, dry chemical, CO₂, or "alcohol" foam.

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MyCompany, MyStreet, MyTown NJ 00000, Tel: 444 999 9999

SUPPLIER LABEL

PRECAUTIONARY STATEMENT



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Use only non-sparking tools. Store in cool/well-ventilated place

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SUPPLIER LABEL

SUPPLEMENTAL INFORMATION



ToxiFlam (Contains: XYZ)



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SUPPLIER LABEL

VARIATIONS

- BULK SHIPMENTS WITHOUT PACKAGING
- 100mL OR LESS, NO PRECAUTIONARY OR HAZARD STATEMENT WHEN
- 3mL OR LESS, DURABLE AND LEGIBLE



"Formaldehydfflasche1" by Amica 2467 - Own work. Licensed under CC BY-SA 4.0 via Wikimedia Commons

SUPPLIER LABEL

UPDATE REQUIREMENTS

- AWARE OF ANY SIGNIFICANT NEW DATA
- WITHIN **180** DAYS OF BEING MADE AWARE OF NEW DATA



Product X / Produit X



DANGER

Fatal if swallowed.
Causes skin irritation.

Precautions:

Wear protective gloves.
Wash hands thoroughly
after handling.
Do not eat, drink or
smoke when using this
product.

Store locked up.
Dispose of
contents/containers in
accordance with local
regulations.

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.

DANGER

Mortel en cas d'ingestion.
Provoque une irritation
cutanée.

Conseils:

Porter des gants de protection.
Se laver les mains soigneusement
après manipulation.
Ne pas manger, boire ou fumer en
manipulant ce produit.

Garder sous clef.
Éliminer le contenu/récipient
conformément aux règlements
locaux en vigueur.

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PEAU :** Laver abondamment à
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Rincer la bouche

Company, 123 street, Toronto, ON N0N 0N0 (123) 456-7890

WORKPLACE LABELS

REQUIRED WHEN

- HAZARDOUS PRODUCT MADE AND USED IN THE WORKPLACE
- DECANTED
- SUPPLIER LABEL MISSING OR ILLEGIBLE

Product X / Produit X

**DANGER**

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**REFER TO THE SAFETY DATA SHEET FOR FURTHER
INFORMATION**



WORKPLACE LABELS

LABEL ELEMENTS

- PRODUCT NAME MATCHING THE SDS
- SAFE HANDLING PRECAUTIONS
- REFERENCE TO THE SDS

MAY INCLUDE PICTOGRAMS

Product X / Produit X



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.	Conseils: 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.

REFER TO THE SAFETY DATA SHEET FOR FURTHER INFORMATION



EXERCISE

SIGNAL WORDS – SERIOUS EYE DAMAGE/IRRITATION

CATEGORY	SIGNAL WORD	HAZARD STATEMENT
1 - IRREVERSIBLE DAMAGE 21 DAYS AFTER EXPOSURE	DANGER	CAUSES SERIOUS EYE DAMAGE
2A - REVERSIBLE IN 21 DAYS	WARNING	CAUSES SERIOUS EYE IRRITATION
2B - IRRITANT, REVERSIBLE IN 7 DAYS	WARNING	CAUSES SERIOUS EYE IRRITATION



SUMMARY

SUPPLIER AND WORKPLACE:

- LABEL ELEMENTS
- REQUIREMENTS
- EXEMPTIONS



SAFETY DATA SHEETS



MODULE OUTCOMES

BY THE END OF THIS MODULE YOU WILL BE ABLE TO:

- LOCATE SPECIFIC INFORMATION ABOUT HAZARDS AND PRECAUTIONS USING THE SDS
- RECOGNIZE THE CHANGES TO WHMIS



SAFETY DATA SHEETS

“EVERY PRODUCT THAT IS CLASSIFIED AS A HAZARDOUS PRODUCT UNDER WHMIS THAT IS INTENDED FOR USE, HANDLING, OR STORAGE IN A WORKPLACE IN CANADA MUST HAVE AN SDS.”



NEW WHMIS SDS

SAFETY DATA SHEET

ITEM	REQUIRED HEADING	ITEM	REQUIRED HEADING
1	IDENTIFICATION	9	PHYSICAL & CHEMICAL PROPERTIES
2	HAZARD IDENTIFICATION	10	STABILITY & REACTIVITY
3	COMPOSITION/INFORMATION	11	TOXICOLOGICAL INFORMATION
4	FIRST AID MEASURES	12	ECOLOGICAL INFORMATION
5	FIRE FIGHTING MEASURES	13	DISPOSAL CONSIDERATIONS
6	ACCIDENTAL RELEASE MEASURES	14	TRANSPORT INFORMATION
7	HANDLING AND STORAGE	15	REGULATORY INFORMATION
8	EXPOSURE CONTROLS/PPE	16	OTHER INFORMATION



SECTION 1.

PRODUCT AND COMPANY IDENTIFICATION

- PRODUCT AND CHEMICAL NAME
- RECOMMENDED USE AND RESTRICTIONS
- MANUFACTURER DETAILS
- EMERGENCY NUMBERS



SECTION 2.

HAZARD(S) IDENTIFICATION

- CATEGORY
- SIGNAL WORD
- PICTOGRAM
- MORE INFO THAN THE LABEL
- OTHER HAZARDS



SECTION 3.

COMPOSITION/INFORMATION ON INGREDIENTS

- CHEMICAL NAME
- COMMON NAME
- CHEMICAL ABSTRACT SERVICES (CAS) NUMBER



SECTION 4.

FIRST AID MEASURES

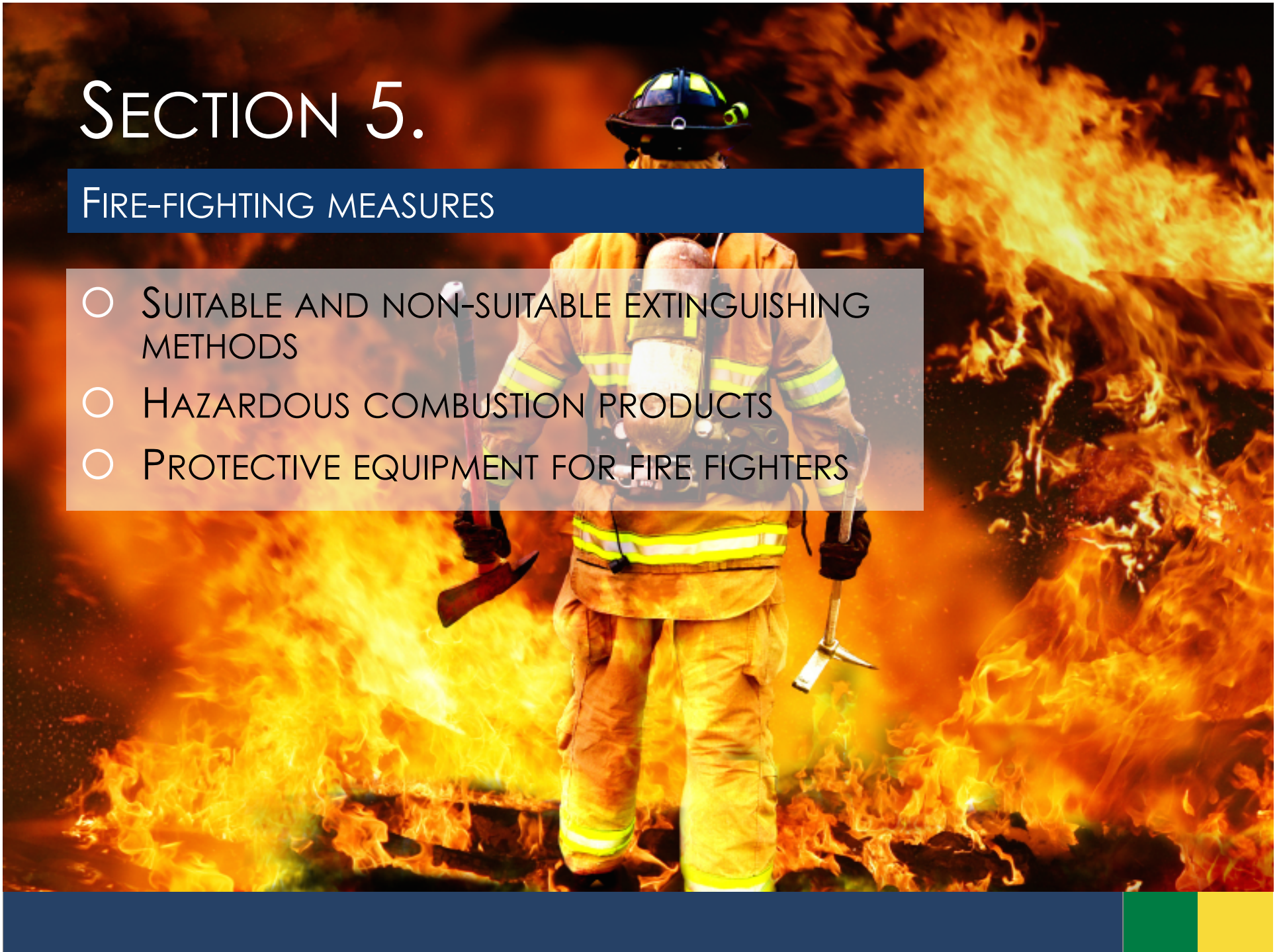
- RESPONSE MEASURE BASED ON ROUTE OF ENTRY
- SYMPTOMS AND EFFECTS
- SPECIAL TREATMENT REQUIREMENTS



SECTION 5.

FIRE-FIGHTING MEASURES

- SUITABLE AND NON-SUITABLE EXTINGUISHING METHODS
- HAZARDOUS COMBUSTION PRODUCTS
- PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS



SECTION 6.

ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS
- PERSONAL PROTECTIVE EQUIPMENT (PPE)
- EMERGENCY PROCEDURES
- METHODS AND MATERIALS FOR CLEANING UP



SECTION 7.

HANDLING AND STORAGE

- PRECAUTIONS FOR SAFE HANDLING
- CONDITIONS FOR SAFE STORAGE
- INCOMPATIBILITIES



SECTION 8.

EXPOSURE CONTROL/PERSONAL PROTECTION

- CONTROL PARAMETERS
- OCCUPATIONAL EXPOSURE VALUES
- ENGINEERING CONTROLS
- PPE



SECTION 9.

PHYSICAL AND CHEMICAL PROPERTIES

- PHYSICAL STATE, APPEARANCE AND ODOUR
- FLAMMABLE RANGE, FLASH AND BOILING POINT
- VAPOUR DENSITY AND SPECIFIC GRAVITY
- WATER SOLUBILITY



SECTION 10.

STABILITY AND REACTIVITY

- REACTIVITY AND CHEMICAL STABILITY
- CONDITIONS TO AVOID
- INCOMPATIBILITY
- HAZARDOUS DECOMPOSITION



SECTION 11.

TOXICOLOGICAL PROPERTIES

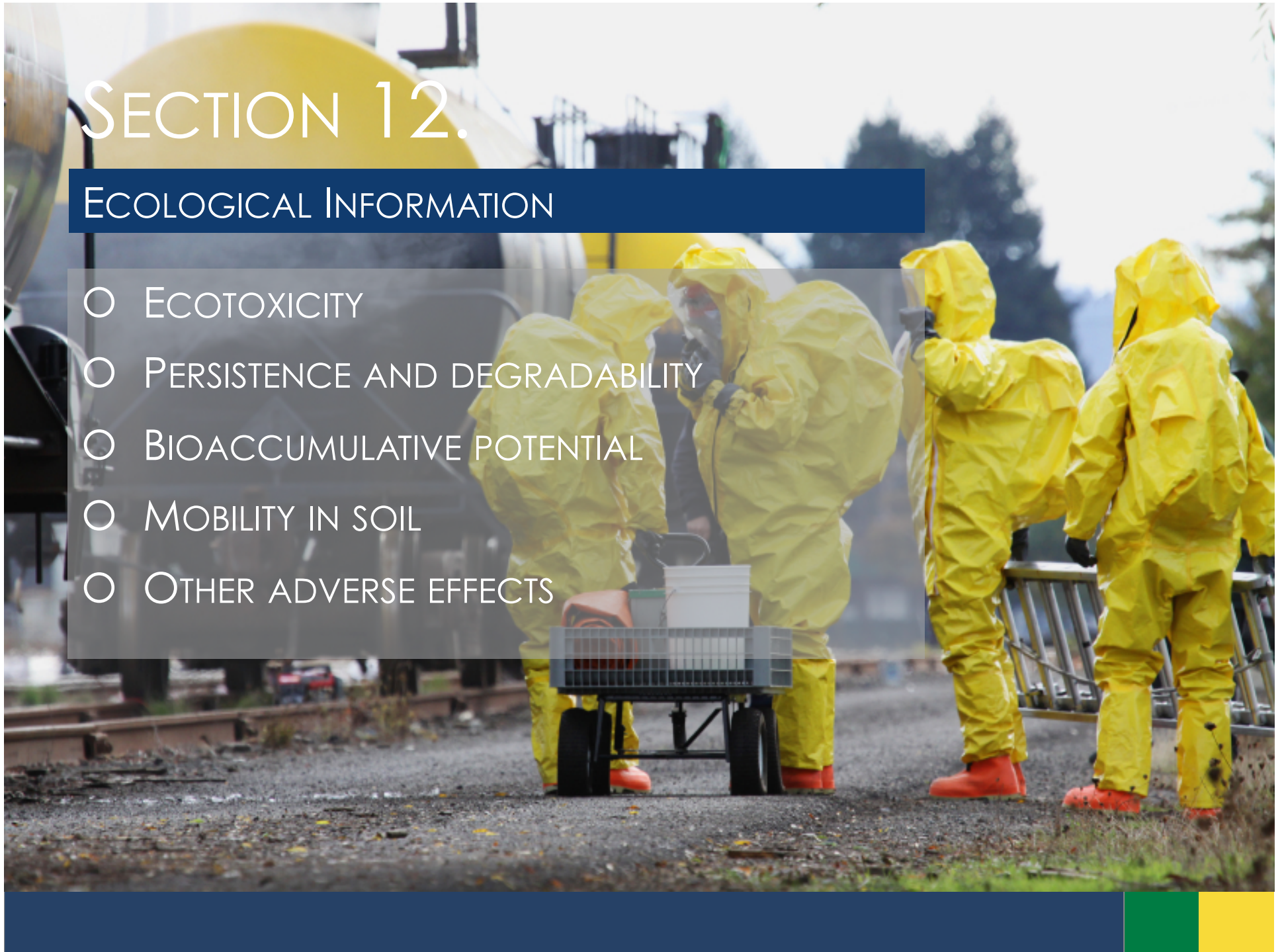
- ROUTES OF EXPOSURE
- SYMPTOMS
- DELAYED, ACUTE AND LONG-TERM EFFECTS



SECTION 12.

ECOLOGICAL INFORMATION

- ECOTOXICITY
- PERSISTENCE AND DEGRADABILITY
- BIOACCUMULATIVE POTENTIAL
- MOBILITY IN SOIL
- OTHER ADVERSE EFFECTS



SECTION 13.

DISPOSAL CONSIDERATIONS

- SAFE HANDLING FOR DISPOSAL
- METHODS OF DISPOSAL



SECTION 14.

TRANSPORT INFORMATION

- UN NUMBER AND SHIPPING NAME
- HAZARD CLASSES AND PACKING GROUP
- ENVIRONMENTAL HAZARDS
- BULK TRANSPORT
- SPECIAL PRECAUTIONS



SECTION 15.

REGULATORY INFORMATION

- SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT



SECTION 16.

OTHER INFORMATION

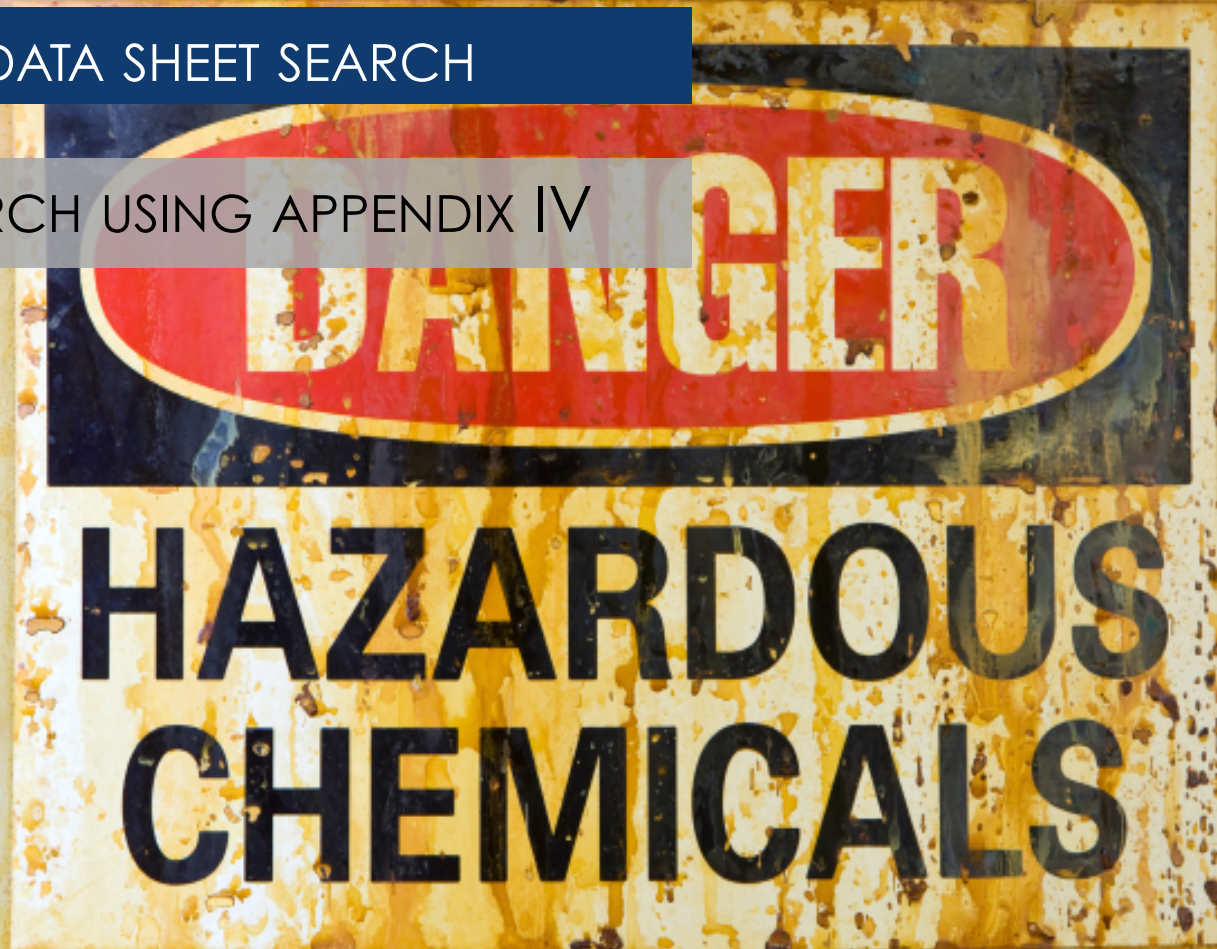
- DATE OF LATEST REVISION OF SDS



EXERCISE

SAFETY DATA SHEET SEARCH

- SEARCH USING APPENDIX IV



SAFETY DATA SHEETS

UPDATE REQUIREMENTS

- WHEN NEW DATA BECOMES AVAILABLE
- UPDATED WITHIN 90 DAYS



SUMMARY

- SDS REQUIREMENTS
- 16 SECTIONS OF THE SDS
- SDS EXPIRY



COURSE SUMMARY

- BENEFITS OF WHMIS
- HAZARD CLASSIFICATION
- PICTOGRAMS
- LABELS
- SAFETY DATA SHEETS

