



WHMIS

Session 5

Facilitator

Date

Company



WHMIS

The purpose of WHMIS

Labels

Material safety

Hazard symbols

Protect yourself



Workplace hazardous material information system (WHMIS)



What is WHMIS?



A hazards information system for materials or chemicals at work.

WHMIS is the law.



WHMIS Hazard Symbols

CLASS A
Compressed
Gas



CLASS D2
Poisonous
and Infectious
Material
(causing other
toxic effects)

CLASS B
Flammable and
Combustible
Material



CLASS D3
Poisonous and
Infectious
Material
(Biohazardous
Infectious Material)

CLASS C
Oxidizing
Material



CLASS E
Corrosive
Material

CLASS D1
Poisonous
and Infectious
Material
(causing immediate
and serious effects)



CLASS F
Dangerously
Reactive
Material

WHMIS symbols



Poisonous & Infectious Material

- Immediate serious effect



Poisonous & Infectious Material

- Other toxic effects



Poisonous & Infectious Material

- Biohazardous infections

WHMIS symbols



Compressed gas

- Gas under pressure in a cylinder
- Compressed air, hydrogen, nitrogen



Flammable & Combustible Material

- Material will burn if ignited
- Gases, aerosols, liquids, solids – cleaning solvents,



Oxidizing Material

- Adds to combustion of other flammable materials
- Chlorine, nitrogen dioxide, hydrogen peroxide

WHMIS symbols



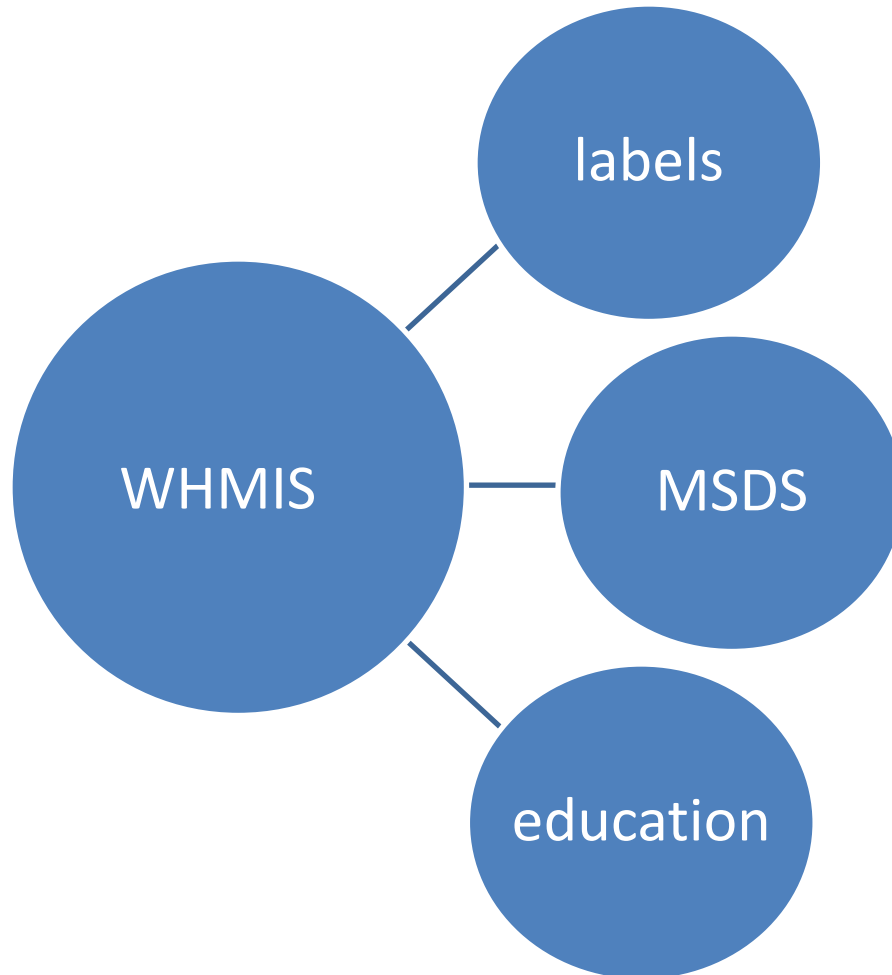
Corrosive Material



Dangerously Reactive Material



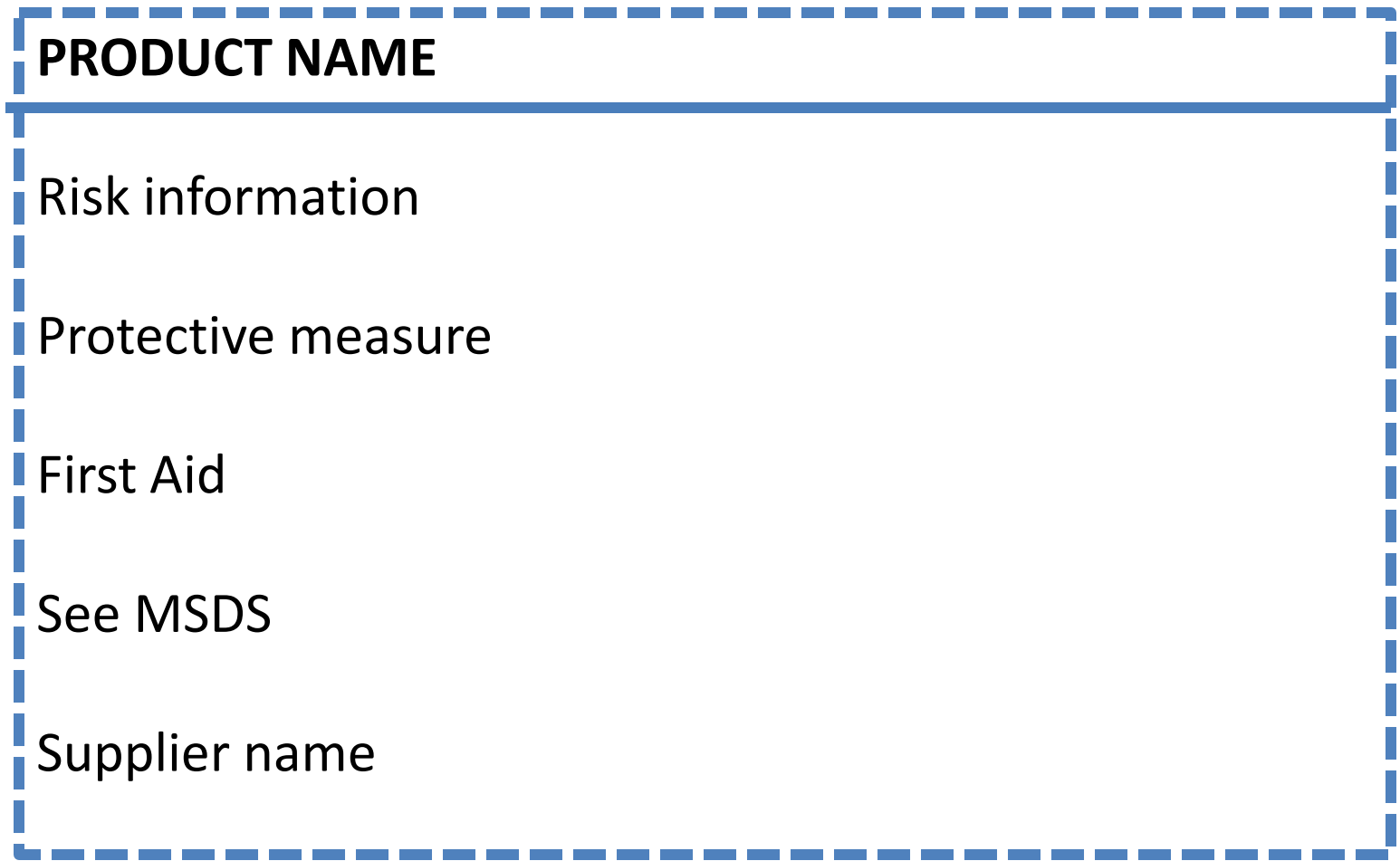
WHMIS system





Provide information for safety

1. Supplier labels





Provide information for safety
2. Workplace labels

PRODUCT NAME

Information

See MSDS



Material Safety Data sheet

Product Information	
Hazardous Ingredients	
Physical Data	
Fire and Explosion Data	
Reactivity Data	
Toxicological Properties	
Preventative Measures	
First-Aid Measures	



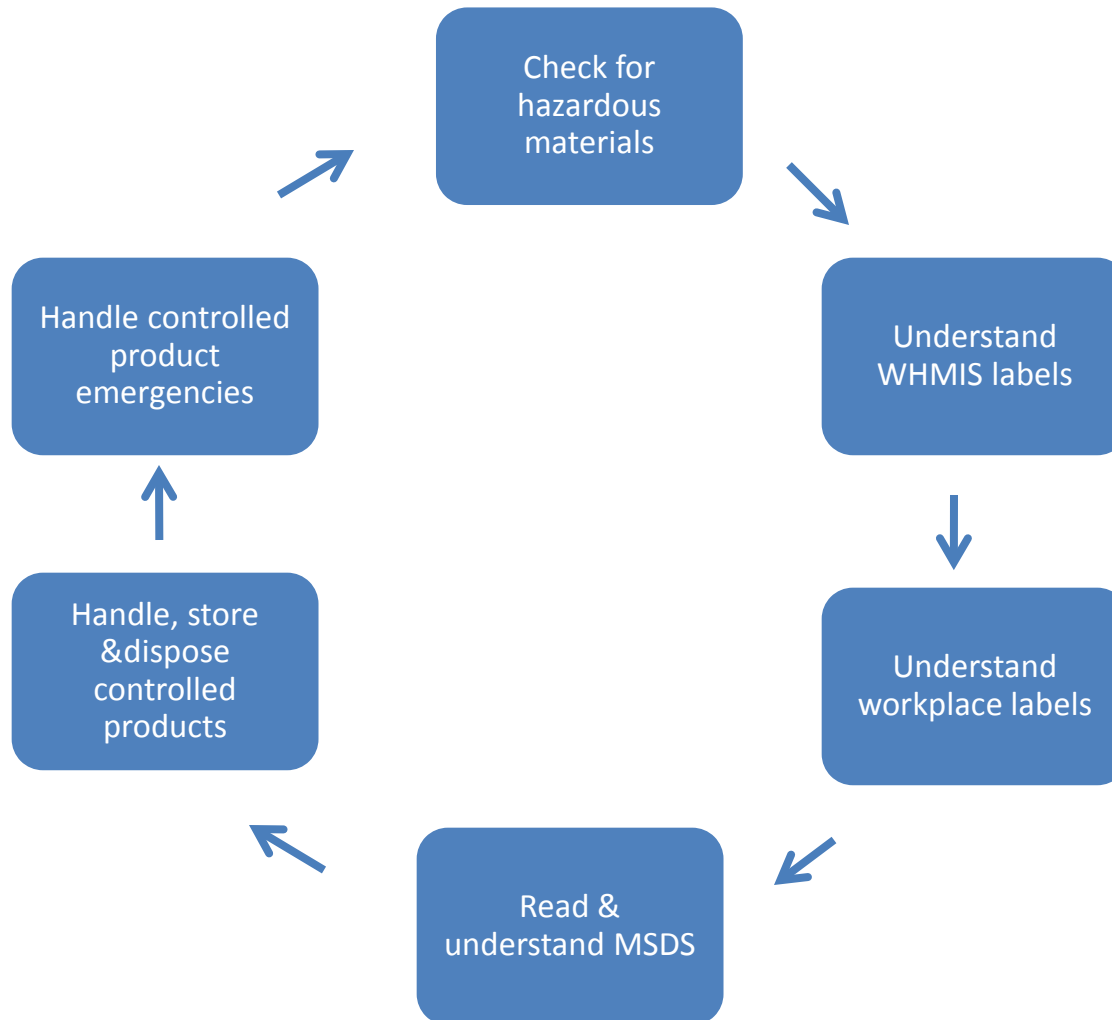
Material Safety Data sheet

Product Information	
	Discloses manufacturers and supplier's contact information, name of product and what it is used for.
Hazardous Ingredients	
	Lists the percentage concentrations of all regulated ingredients.
Physical Data	
	Contains information regarding the physical properties of the material such as density, boiling point, melting point, etc...
Fire and Explosion Data	
	Reveals fire fighting measures, lower and upper explosive limits, auto-ignition temperatures, etc...
Reactivity Data	
	Lists the incompatible materials (if any) and conditions under which the material becomes unstable.
Toxicological Properties	
	Includes information concerning possible health effects and exposure limits.
Preventative Measures	
	The recommendations to avoid exposure.
First-Aid Measures	
	Specific first-aid measures to follow in case of exposure.
Preparation Information	
	Discloses contact information regarding group that prepared the MSDS and the date of preparation.

education



Learn to identify & handle materials



WHMIS Safety Worksheet

WHMIS and Safety Worksheet - Answer Key

1. What does WHMIS stand for?
2. What is the purpose of WHMIS?
3. What information would you find on a WHMIS label?
4. Do all products and chemicals have WHMIS labels? Explain.
5. Identify the following symbols, write down at least one hazard this symbol represents and give one example of a material or chemical that may have this symbol.



	Identify Symbol	One Hazard	Example
A			
B			
C			
D			
E			
F			
G			
H			

Grade 8 - WHMIS - Student Handout #3A - Answer Key

WHMIS and Safety Worksheet - Answer Key

1. What does WHMIS stand for? **Workplace Hazardous Materials Information System**
2. What is the purpose of WHMIS?
It is an information system in the form of special labels, symbols, and Material Safety Data Sheets (MSDS) for potentially dangerous chemicals used on the job
3. What information would you find on a WHMIS label?
Name of the chemical, the WHMIS hazard symbols, risks and precautions, first aid instructions, supplier's name and address, a reference to the matching MSDS
4. Do all products and chemicals have WHMIS labels? Explain.
No, some products, like pesticides and many household products, are covered by other legislation, and will have other label (e.g. international hazards symbols)
5. Identify the following symbols, write down at least one hazard this symbol represents and give one example of a material or chemical that may have this symbol.



	Identify Symbol	One Hazard	Example
A	Compressed Gas	could explode if heated	helium, hydrogen
B	Flammable & combustible materials	could cause a fire	gasoline, ether
C	Oxidizing materials	could cause flammable material to burn	chlorine, bleach, peroxide
D	Poisonous & infectious material - Division 1	could cause immediate, serious/fatal toxic effects	potassium cyanide, carbon monoxide
E	Poisonous & infectious material - Division 2	cause toxic effects	cancer, sterility, benzene asbestos
F	Poisonous & infectious material - Division 3	biohazardous infectious material transmission of a disease	hepatitis B, AIDS, fungi, viruses
G	Corrosive material	serious chemical burns, lung damage from inhaling fumes	sulfuric acid, chlorine gas
H	Dangerously reactive material	could have a dangerous reaction with water	calcium carbide



Clear Speech





Vocabulary

Poisonous & Infectious	
Immediate serious effect	
Other toxic effects	
Biohazardous infections	
Compressed gas	
Flammable & Combustible	
Oxidizing	
Corrosive	
Dangerously Reactive	
Labels	
Risk information	
Protective measure	

Vocabulary

First Aid	
Supplier	
Product information	
Hazardous ingredients	
Physical data	
Fire and explosion data	
Reactivity data	
Toxicological properties	
Preventative measures	
Controlled products	
dispose	
handle	

Acronyms

WHMIS	Workplace hazardous material information system
CCOHS	Canadian Centre for Occupational Health and Safety
MSDS	Material safety data sheet