WHMIS 2015

Canada has aligned the Workplace Hazardous Material Information System (WHMIS) with the Globally Harmonized System of Classification and Labelling of Chemicals. (GHS).

Health Canada is the government body responsible for making the required changes to the overall federal WHMIS- related laws.

What is WHMIS?

WHMIS stands for the Workplace Hazardous Material Information System. It is a comprehensive system for providing health and safety information on hazardous products intended for use, handling, or storage in Canadian workplaces.

WHMIS has aligned with the worldwide hazard communication system known as GHS - the Globally Harmonized System of Classification and Labelling of Chemicals. Aligning with GHS provides many benefits, including:

- Hazard classification criteria are more comprehensive which improves ability to indicate severity of hazards.
- New Hazard classes are included.
- Physical hazard criteria are consistent with the Transport of Dangerous Goods (TDG regulations).
- Standardized language (hazard and precautionary statements).
- Standardized SDS format and more comprehensive requirements.

What are the main parts of WHMIS?

The main components of WHMIS are hazard identification and product classification, labelling, safety data sheets, and worker education and training.

Is WHMIS law?

Yes. WHMIS first became law in 1988 through a series of complementary federal, provincial and territorial legislation and regulations. This original system will be identified as WHMIS 1988. Updates to implement GHS will be referred to as WHMIS 2015.

What is a SDS?

Safety Data Sheets (SDSs) are summary documents that provide information about the hazards of a product and advice about safety precautions. SDSs are usually written by the manufacturer or supplier of the product.

SDSs provide more detailed hazard information about the product than the label. They are an important resource for workplaces and workers to help you learn more about the product(s) used. Use this information to identify the hazards of the products you use and to protect yourself from those hazards, including safe handling and emergency measures.

SDSs tell users what the hazards of the product are, how to use the product safely, what to expect if the recommendations are not followed, how to recognize symptoms of exposure, and what to do if emergencies occur.

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.

What information is on the SDS?

1. Identification: Product identifier, recommended use and restrictions on use, supplier

contact information, emergency phone number.

2. Hazard identification: Classification (hazard class and category), label elements (including

hazard pictogram, signal word, hazard statement and precautionary

statements) and other hazards (e.g. thermal hazards)

3. Composition/Information: For a hazardous product that is a substance: the chemical name,

synonyms, CAS No. and the chemical name of impurities, stabilizing solvents and stabilizing additives where classified and that contribute

to the classification of the product.

For a hazardous product that is a mixture: for ingredients that present

a health hazard, the chemical name, synonyms, CAS No. and

concentration.

4. First-aid measures: First-aid measures by route of exposure as well as most important

symptoms/effects

Inhalation Skin contact Eye contact Ingestion 5. Fire-fighting measures: Suitable (and unsuitable) extinguishing media, specific hazards,

Special equipment and precautions for fire fighters

6. Accidental release measures: Protective equipment, emergency procedures, methods and

materials for containment and clean up.

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7. Handling and storage: Precautions for safe handling, conditions for storage, including

any incompatibilities.

8. Exposure controls/
Personal protection:

Exposure limits, engineering controls, personal protective equipment.

9. Physical and chemical properties: Appearance, odour, odour threshold, pH, melting/freezing point,

boiling point and range, flash point, upper and lower flammable

or explosive limits.

10. Stability and reactivity: Reactivity, chemical stability, possible hazardous reactions, conditions

to avoid, incompatible materials, hazardous decomposition

products.

11. Toxicological Information: Description of various toxic effects by route of entry, including effects

of acute or chronic exposure, carcinogenicity, reproductive effects,

respiratory sensitization.

12. Ecological Information: Aquatic and terrestrial toxicity (if available), persistence and

degradability, bioaccumlative potential, mobility in soil.

13. Disposal considerations: Safe handling and methods of disposal, including contaminated

packaging.

14. Transport information: UN number and proper shipping name, hazard classes, packing group.

15. Regulatory information: Safety, health and environmental regulations specific to the product.

16. Other Information: Other information, including date of the latest revision of the SDS.

NOTE: 12, 13, 14 & 15 - Require the headings to be present. The supplier has the option to not provide information in these sections.

HAZARD CLASSES

Physical Hazard Classes

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Combustible Dusts
Corrosive to Metals
Flammable Gases
Flammable Liquids
Flammable Solids
Gases Under Pressure
Organic Peroxides
Oxidizing Gases
Oxidizing Liquids
Olxidizing Solids
Pyrophoric Gases
Pyrophoric Liquids
Pyrophoric Solids
Self-Heating Substances and Mixtures
Self-Reactive Substances and
Mixtures
Simple Asphyxiants
Substances and Mixtures Which, in
Contact with Water Emit Flammable
Gases
Physical Hazards Not Otherwise
Classified

WHMIS 2015 DOES NOT INCORPORATE THE GHS EXPLOSIVES AND ENVIRONMENTAL HAZARD CLASSES

Health Hazard Classes

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Acute Toxicity
Aspiration Hazard
Biohazardous Infectious Materials
Carcinogenicity
Reproductive Toxicity
Respiratory or Skin Sensitization
Serious Eye Damage/Eye Irritation
Skin Corrosion/Irritation
Specific Target Organ Toxicity -Repeated
Exposure
Specific Target Organ Toxicity -Single
Exposure
Health Hazards Not Otherwise Classified

WHMIS 2015 Labels

- Product Identifier
 The product name exactly as it appears on the container and on the Safety Data Sheet (SDS).
- 2 Hazard Pictograms

 Hazard pictograms, determined by
 the hazard classification of the
 product. In some cases, no pictogram
 is required.
- Signal Words
 "Danger" or "Warning" are used to
 emphasize hazards and indicate the
 severity of the hazard.
- Hazard Statements

 Brief standardized statements of
 all hazards based on the hazard
 classification of the product.
- 5 Precautionary Statements
 These statements describe
 recommended measures to
 minimize or prevent adverse effects
 from exposure to the product,
 including protective equipment
 and emergency measures.
- 6 Supplier Identifier The company which made, packaged, sold or imported the product, and is responsible for the label and SDS.
- 7 Safe Handling Precautions May include pictograms or other supplier label information.
- 8 Reference to SDS

Supplier Label Product K1 / Produit K1 Danger Danger Fatal if swallowed. Mortel en cas d'ingestion. Causes skin irritation. Provoque une irritation cutanée. Precautions: Conseils: Porter des gants de protection. Se laver les mains soigneusement après manipula-Wash hands thoroughly after handling. Do not eat, drink or smoke when using Ne pas manger, boire ou fumer en manipulant ce produit. Store locked up. Dispose of contents/containers in accordance with local regulations. EN CAS DE CONTACT AVEC LA PEAU: Laver IF ON SKIN: Wash with plenty of water. En cas d'instation cutanes : Demander un avis medical/consulter un médecin. If skin irritation occurs: Get medical advice or attention. Enlever les vétements contaminés et les la EN CAS D'INGESTION : Appeier immédiatement u IF SWALLOWED: Immediately call a POISON CENTRE or doctor. CENTRE ANTIPOISON ou un médecin.

Rincer la bouche.

ABC Chemical Co., 123 rue Anywhere St., Mytown, ON NON ONO (123) 456-7890

Workplace Label*

Product K1

Danger
Fatal If swallowed. Causes skin irritation.

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

See SDS for more information.



Flame

Flammable

Self-Reactive

Pyrophoric

Self-Heating

In Contact with Water, **Emits Flammable Gases**

Organic Peroxide



Flame over Circle

Explosive*

Gas Cylinder

Gas Under Pressure

Corrosion

Serious Eye Damage Skin Corrosion Corrosive to Metals

Exclamation Mark

Irritation (skin or eyes) Skin Sensitization Acute Toxicity (harmful) Specific Target Organ Toxicity (drowsiness or dizziness, or respiratory irritation)

Hazardous to the Ozone Layer*

Environment

Aquatic Toxicity*

Oxidizer

Exploding Bomb

Self-Reactive (severe) Organic Peroxide (severe)

Skull and Crossbones

Acute Toxicity (fatal or toxic)



Biohazardous Infectious Materials



Health Hazard

Biohazardous

Carcinogenicity

Respiratory Sensitization

Reproductive Toxicity

Specific Target Organ Toxicity

Germ Cell Mutagenicity

Aspiration Hazard



A GHS pictogram appropriate for the hazard

Physical Hazards Not Otherwise Classified **Health Hazards Not Otherwise Classified**

NOTE: No pictogram is assigned to some hazard classes e.g., Combustible Dusts and Simple Asphyxiants, and some less severe hazard categories.

*Not required by WHMIS, but may be used.