

Table of Contents 1

Volume 1

About the Author	iii
Acknowledgements	v
Table of Contents.....	ix
Table of Acronyms	xxix

Overview

What is GHS?	INT-1
Why Global Harmonization?.....	INT-1
Global Regulatory Structure.....	INT-2
Figure 1, GHS Implementation	INT-4
Implementation Status	INT-4
Global Transportation of Dangerous Goods.....	INT-6
Table 1, GHS Classes and Symbols.....	INT-7
Preparing for GHS in Canada	INT-26
Training.....	INT-27
Safety Data Sheets (SDS).....	INT-27
Employer Responsibilities During Transition.....	INT-28
Keeping Aware of Changes	INT-28
GHS Implementation — Country Comparisons	INT-31
United States	INT-31
Labelling.....	INT-32
SDSs	INT-32
Mexico	INT-33
Deviations from GHS	INT-33
Supplier Labels	INT-33
SDS Format	INT-34
European Union	INT-34
Classification and Labelling Inventory.....	INT-34.2
Safety Data Sheets	INT-34.2
Pesticides	INT-34.2
United Kingdom.....	INT-34.2
Australia.....	INT-34.3

China.....	INT-34.4
Japan	INT-34.5
Revision to Appendix I — Overview of Additions and Variations in Provincial and Territorial WHMIS Regulations.....	INT-38
Addressing International and Intraprovincial Trade Barriers and Compliance with Hazardous Products Regulations.....	INT-38.16(1)
Appendix IA — WHMIS and COVID-19	INT-38.17
Appendix II — Psychological Health and Safety in the Workplace: New Considerations in the COVID-19 Pandemic Era	INT-58
Appendix III — Why are some hazardous products not covered under WHMIS?.....	INT-74
Appendix IV — Recommendations Amending the Hazardous Products Regulations GHS Seventh Revised Edition.....	INT-85

Chapter 1 WHMIS 2015 — The Employer’s Role

About WHMIS.....	1-1
The WHMIS Compliance Manual.....	1-2
WHMIS 2015 Pocket Guide	1-3
Workplace Health & Safety and WHMIS 2015	1-4
Table 1 Applicable Legislation for Each Jurisdiction.....	1-5
Health Canada — Effective WHMIS Management.....	1-7
Application of WHMIS 2015.....	1-11
Responsibilities	1-12
Supplier Responsibilities	1-12
Employee (Worker) Responsibilities	1-12
Employer Responsibilities	1-13
Inspectors	1-16
Maintaining the WHMIS 2015 Program	1-16
Regulatory Developments to Consider in a WHMIS Program	
Review	1-17
The Principle of Informed Substitution	1-19
Resources to Support Informed Substitution	1-19
WHMIS and GHS (Globally Harmonized System of Classification and Labelling of Chemicals).....	1-20
Why Global Harmonization?.....	1-20
How GHS Affects the WHMIS 2015 Regulations.....	1-21

Table of Contents

1. Classification and Symbols	1-21
Table 2 GHS vs. WHMIS vs. TDG Classifications	1-23
2. Safety Data Sheets	1-37
Table 3 SDS Headings and Required Information	1-38
3. Product Labels (Supplier).....	1-42
Preparing for GHS in Canada	1-43
1. Training	1-44
2. Classification and Symbols	1-44
3. Safety Data Sheets	1-44
4. Product Labels (Supplier and Workplace).....	1-45
Preparing for GHS in Other Countries.....	1-45
Keeping Aware of Changes	1-47

Chapter 2 Classification

Definition	2-1
Introduction	2-1
Types of Hazard Classes under GHS	2-3
Classification Process	2-4
Classification Assessments	2-5
Data Sources	2-5
WHMIS 2015 Hazard Classes and Categories	2-6
Physical Hazards	2-6
Flammable Gases	2-7
Chemically unstable gas.....	2-8
Pyrophoric Gas.....	2-8
Aerosols	2-8
Oxidizing Gases	2-10
Gases under Pressure	2-11
Flammable Liquids.....	2-11
Flammable Solids.....	2-12
Self-Reactive Substances.....	2-12
Pyrophoric Liquids.....	2-14
Pyrophoric Solids	2-14
Self-Heating Substances.....	2-14
Substances, which, in Contact with Water, Emit	
Flammable Gases	2-15
Oxidizing Liquids.....	2-16
Oxidizing Solids.....	2-16
Organic Peroxides	2-17
Chemicals Under Pressure.....	2-18

Corrosive to Metals.....	2-19
Additional Physical Hazards not Included in GHS	2-19
Combustible Dusts	2-19
Simple Asphyxiants.....	2-20
Physical Hazards Not Otherwise Classified.....	2-20
Health Hazard Classes.....	2-20
Acute Toxicity	2-20
Conversion from Range to Point Estimate	2-22
Skin Corrosion/irritation.....	2-24
Serious Eye Damage/Eye Irritation	2-26
Respiratory or Skin Sensitization	2-28
Germ Cell Mutagenicity.....	2-30
Carcinogenicity	2-32
Reproductive Toxicity	2-33
Specific Target Organ Toxicity — Single Exposure	2-34
Specific Target Organ Toxicity — Repeated Exposure.....	2-36
Aspiration Hazard	2-38
Biohazardous Infectious Materials.....	2-38
Health Hazards Not Otherwise Identified.....	2-39
WHMIS Pictograms Applicable to Physical and Health Hazard Categories.....	2-40
Classification and Identification of Carcinogens under WHIMS.....	2-45

Chapter 3 The Label

Introduction	3-1
WHMIS Label Requirements During the Transition Period.....	3-2
Supplier Labels	3-2.1
What Information is Required on Supplier Labels?	3-3
Supplier Label Design.....	3-4
Product Identifier.....	3-4
Initial Supplier identifier	3-4
Symbol.....	3-4
Signal Word	3-6
Hazard Statement	3-6
Precautionary Statement	3-6
Information Elements for Certain Categories or Subcategories	3-7
Supplemental Label Elements — Acute Toxicity.....	3-7
When is a Supplier Label Required?.....	3-7

Table of Contents

Exceptions	3-8
Bulk Shipments	3-8
Laboratory Samples.....	3-9
Radionuclides or Non-Radioactive Carrier Materials	3-10
Workplace Labels.....	3-10
When is a WHMIS Workplace Label Required?	3-11
Workplace Label Design.....	3-11
Performance Standard	3-11
Workplace Label Examples.....	3-12
Uses for a Workplace Label.....	3-12
Preparing the Workplace Label.....	3-18
Product Identifier.....	3-18
Information for Safe Handling	3-18
Reference to the Safety Data Sheet.....	3-19
Other Types of Workplace Labels and Symbols	3-19
Personal Protective Equipment Symbols	3-19
NFPA (National Fire Protection Association) Labels.....	3-21
Additional Label Requirements.....	3-25
Legibility of Labels.....	3-25
Quality of Labels	3-26
Hazard Symbols	3-26

[Next page is xiii]

