

Contents

◆ CONTENTS AND INTRODUCTION

1 Introduction	1-1
a. Purpose and Contents of the <i>Guide</i>	1-1
b. Compliance Planning.....	1-5
c. California’s State and Local Agencies.....	1-11
d. Case Studies.....	1-13

Acronyms and Abbreviations	Acronyms-i
-----------------------------------------	-------------------

◆ HAZARDOUS MATERIALS

2 Storage and Handling of Hazardous Materials	2-1
a. Overview.....	2-1
b. Waters Bill Requirements.....	2-3
c. Toxic Chemical Release Reporting	2-6
d. Community Right-to-Know (SARA Title III).....	2-8
e. Proposition 65 Requirements.....	2-9
3 Pesticides	3-1
a. Overview.....	3-1
b. Definition of a Pesticide.....	3-1
c. Pesticide Functions	3-3
d. What is not a Pesticide?.....	3-4
e. FIFRA	3-4
f. California Department of Pesticide Regulation (DPR).....	3-5
g. Classification and Use of Pesticides	3-5
h. County Agricultural Commissioners	3-6
i. California Restricted Materials.....	3-6
j. California Groundwater Protection List.....	3-6
k. Banned and Severely Restricted Pesticides	3-6
l. California’s Pesticide Management Zones (PMZs).....	3-7
m. Storage, Disposal, and Transportation of Pesticides.....	3-7
n. Cancellation or Suspension of a Pesticide’s Registration.....	3-8
o. Worker Safety for Pesticide Users.....	3-9
p. Penalties and Enforcement.....	3-10
q. Internet Resources.....	3-10

◆ **HAZARDOUS WASTE**

4 Hazardous Waste 4-1

- a. Overview of Hazardous and Non-Hazardous Wastes in California 4-3
- b. Conducting a Waste Survey 4-5
- c. California Hazardous Wastes 4-6
- d. California Universal Wastes 4-46
- e. Wastes That May Be Regulated as Hazardous Wastes in California 4-52
- f. California Non-Hazardous Wastes Requiring Special Management 4-61
- g. Waste Information Resources 4-68

◆ **AIR**

5 Air Quality 5-1

- a. Overview 5-1
- b. Pollutants of Concern 5-3
- c. Regulations Governing Stationary Sources of Air Pollution 5-5
- d. Regulations Governing Mobile Sources of Air Pollution 5-15
- e. Regulations Governing Ozone-Depleting Substances 5-33
- f. Air Quality Recordkeeping Requirements and Compliance Certifications 5-37
- g. Regulating Air Toxics Emissions 5-37
- h. Enforcement 5-40

◆ **WATER**

6 Water Quality 6-1

- a. Overview 6-1
- b. Determining Which Requirements Apply to your Facility 6-4.1
- c. Waste Discharge Requirements/National Pollutant Discharge Elimination System Permits 6-5
- d. Enforcement and Penalties 6-14
- e. Injection Wells 6-15

7 Wastewater Discharge to Sewers 7-1

- a. Overview 7-1
- b. Prohibited Discharges 7-4.1
- c. Permitted Discharges 7-4.2
- d. Operators of Industrial Wastewater Treatment Plants 7-5
- e. Enforcement and Penalties 7-6

◆ **STORAGE TANKS**

8 Underground Storage Tanks 8-1

- a. General Overview 8-1
- b. Overview of MTBE 8-3
- c. Basic Requirements 8-4
- d. Permitting and Registration 8-6
- e. Construction and Installation Standards 8-7
- f. Operating Under the UST “Training Plus” Requirements..... 8-10
- g. Monitoring and Leak Detection Requirements..... 8-12
- h. Piping Standards 8-14
- i. Deadlines for Upgrading Existing UST Systems..... 8-16
- j. Required Response to Releases (Leaks) 8-17
- k. Financial Responsibility Requirements for Petroleum-Containing UST Systems..... 8-20
- l. Closure Rules 8-22
- m. Recordkeeping Requirements 8-23
- n. Penalties 8-24

9. Aboveground Storage Tanks 9-1

- a. Overview 9-2
- b. Spill Prevention, Control, and Countermeasures Plan..... 9-3
- c. OPA 90 Requirements 9-8
- d. California Aboveground Petroleum Storage Act..... 9-9
- e. AST Air Permits 9-10
- f. Other Permits 9-10
- g. Markings on ASTs 9-10

◆ **RELEASES**

10 Emergency Planning and Release Reporting 10-1

- a. Overview 10-1
- b. Preparing for the Possibility of a Release 10-5
- c. Defining a Release 10-11
- d. When a Release Occurs 10-12
- e. Reporting the Release 10-13
- f. After a Release Occurs..... 10-29
- g. Recordkeeping on Release Reporting 10-30

◆ OSHA

11 The Hazard Communication Standard	11-1
a. Overview.....	11-1
b. Definition of “Hazardous Substance”	11-1
c. Hazcom Regulations in California.....	11-3
d. The Basics of Hazard Communication	11-3
e. Hazardous Substance Exemptions	11-4
f. Labeling Exemptions	11-5
g. Sealed Container Exemptions	11-5
h. Proposition 65	11-6
i. Hazard Determination.....	11-7
j. The Written Hazard Communication Program.....	11-7
k. Labels and Other Forms of Warning	11-8
l. Material Safety Data Sheets.....	11-9
m. Employee Information and Training.....	11-10
12 Health and Safety	12-1
a. Overview.....	12-1
b. OSHA Recordkeeping	12-5
c. Hearing Conservation	12-12
d. Respiratory Protection	12-13
e. Use of Compressed Air.....	12-16
f. Machine Guarding Requirements	12-16
g. Rim Wheel Service and Repair.....	12-17
h. Use of Personal Protective Equipment	12-19
i. Use of Jacks	12-20
j. Use of Pneumatic- and Power-Actuated Tools.....	12-21
k. Use of Abrasive Wheels.....	12-23
l. Forklifts and Other Powered Industrial Trucks	12-24
m. Injury and Illness Prevention Program	12-24
n. Ergonomics	12-26
o. Brake and Clutch Work	12-27

◆ **TRAINING**

13 Training **13-1**

 a. Overview 13-1

 b. HMTA Training Requirements 13-2.1

 c. Training Under the OSH Act and its Standards and California Equivalent Regulations 13-3

 d. Hazardous Waste Generator Training Requirements 13-22

 e. Cathodic Protection for Underground Storage Tanks 13-24

 f. USTs “Training Plus” 13-24

 g. Training Under CWA and the FOOSC Plan 13-25

 h. CAA Training Requirements (Motor Vehicle Air Conditioning Repair Technicians) 13-26

 i. Training Requirements for Pesticide Applicators 13-27

 j. Creating an Integrated Training Program 13-28

◆ **POLLUTION PREVENTION (P₂)**

14 Pollution Prevention (P₂) **14-1**

 a. Overview 14-1

 b. General P₂ Practices for Vehicle Maintenance Facilities 14-3

 c. Specific P₂ Practices for Vehicle Maintenance Facilities 14-15

 d. Resources for P₂ 14-68

Simplified Guides

Chapter 2	Simplified Guide to Meeting California Hazardous Materials Storage Requirements	2-2a
Chapter 3	Simplified Guide to Meeting Pesticide Requirements	3-2a
Chapter 4	Simplified Guide to meeting California Hazardous Waste Requirements	4-4a
Chapter 5	Simplified Guide to Meeting Air Quality Requirements	5-2a
Chapter 6	Simplified Guide to Meeting Requirements on Direct Discharges to Water	6-4a
Chapter 7	Simplified Guide to Meeting the Requirements on Discharges of Wastewater to Sewer Systems in California.....	7-4a
Chapter 8	Simplified Guide to Meeting California Underground Storage Tank Requirements	8-2a
Chapter 9	Simplified Guide to Meeting California Aboveground Storage Tank Requirements	9-2a
Chapter 10	Simplified Guide to Meeting Emergency Planning and Release Reporting Requirements	10-4a
Chapter 11	Simplified Guide to Meeting OSHA Hazard Communication Requirements.....	11-2a
Chapter 12	Simplified Guide to Meeting California Health and Safety Requirements	12-4a
Chapter 13	Simplified Guide to Meeting California Training Requirements ..	13-2a
Chapter 14	Simplified Guide to Incorporating Pollution Prevention (P ₂).....	14-2a

Checklists

Checklist 2A	Hazardous Materials Storage Emergency Planning and Chemical Inventory Reporting.....	List 2A-i
Checklist 2B	Hazardous Materials Storage Toxic Chemical Release Reporting	List 2B-i
Checklist 3A	Pesticide Requirements	List 3A-i
Checklist 4A	Hazardous Wastes Screening.....	List 4A-i
Checklist 4B	Management of Spent Lead-Acid Batteries	List 4B-i
Checklist 4C	Management of Used Oil.....	List 4C-i
Checklist 4D	Management of Hazardous Wastes Containing over 100 ppm VOCs	List 4D-i
Checklist 4E	Small Quantity Generators.....	List 4E-i
Checklist 4F	Large Quantity Generators.....	List 4F-i
Checklist 4G	Universal Waste Generators	List 4G-i
Checklist 5A	Air Quality	List 5A-i
Checklist 6A	Direct Discharges to Water.....	List 6A-i
Checklist 7A	Wastewater Sewer Discharge Requirements	List 7A-i
Checklist 8A	Underground Storage Tank Systems General Requirements and Screening.....	List 8A-i
Checklist 8B	Petroleum UST System Requirements.....	List 8B-i
Checklist 8C	UST System Release Response Requirements	List 8C-i
Checklist 8D	UST System Closure Requirements.....	List 8D-i
Checklist 8E	Requirements for Existing UST Systems	List 8E-i
Checklist 8F	Requirements for New UST Systems	List 8F-i
Checklist 9A	Aboveground Storage Tanks.....	List 9A-i
Checklist 9B	Spill Prevention, Control, and Countermeasures Requirements	List 9B-i
Checklist 10A	Release Reporting.....	List 10A-i
Checklist 10B	Emergency Planning	List 10B-i
Checklist 11A	Cal/OSHA Hazard Communication Standard Requirements	List 11A-i
Checklist 12A	Health and Safety Requirements.....	List 12A-i
Checklist 13A	Training Requirements.....	List 13A-i
Checklist 13B	HAZWOPER Training Requirements	List 13B-i

Appendices

Appendix 1A	Key Federal and State Environmental Laws and Regulations.....	App 1A-i
Appendix 1B	Resources	App 1B-i
Appendix 2A	Extremely Hazardous Substances	App 2A-i
Appendix 2B	Toxic Release Inventory (TRI) Reporting	App 2B-i
Appendix 2C	List of TRI Chemicals and Chemical Categories	App 2C-i
Appendix 2D	Chemicals Known to the State to Cause Cancer or Reproductive Toxicity (Proposition 65 List)	App 2D-i
Appendix 3A	California County Agricultural Commissioners	App 3A-i
Appendix 3B	California Restricted Materials	App 3B-i
Appendix 3C	Groundwater Protection List.....	App 3C-i
Appendix 3D	Banned and Severely Restricted Pesticides	App 3D-i
Appendix 4A	RCRA Hazardous Wastes from Non-Specific Sources	App 4A-i
Appendix 4B	RCRA Hazardous Wastes from Specific Sources	App 4B-i
Appendix 4C	RCRA Hazardous Wastes from Discarded Commercial Chemical Products, Off-Specification Species, Container Residues, and Spill Residues	App 4C-i
Appendix 4D	RCRA Hazardous Wastes from Hazardous Constituents	App 4D-i
Appendix 4E	California Listed Hazardous Wastes.....	App 4E-i
Appendix 5A	Attainment Status Area for California Ambient Air Quality Standards (CAAQS)	App 5A-i
Appendix 5B	Toxic Air Contaminants (TACs) and Hazardous Air Pollutants (HAPs)	App 5B-i
Appendix 5C	Thresholds for VOCs, Nox and PM10 for Each Air District....	App 5C-i
Appendix 5D	California Air Pollution Control Districts.....	App 5D-i
Appendix 5E	Ozone-depleting Substances (ODS)	App 5E-i
Appendix 5F	California’s ARP Program Regulated Substances.....	App 5F-i
Appendix 5G	Air Toxics “Hot Spots” (AB 2588) Program Substances	App 5G-i
Appendix 6A	California Regional Water Quality Control Board Offices	App 6A-i
Appendix 6B	CWA Toxic Pollutants.....	App 6B-i
Appendix 6C	Storm Water Pollution Prevention Plan.....	App 6C-i
Appendix 7A	Industrial Activities Subject to National Categorical Pretreatment Standards Under the Clean Water Act.....	App 7A-i
Appendix 8A	Sample Underground Storage Tank Management Program	App 8A-i
Appendix 9A	Sample Spill Prevention, Control, and Countermeasures (SPCC) Plan	App 9A-i
Appendix 10A	DOT Hazardous Materials	App 10A-i
Appendix 10B	Incident Critique Form.....	App 10B-i
Appendix 10C	Reporting Form for Emergency Events	App 10C-i
Appendix 10D	Sample Emergency Action Plan	App 10D-i
Appendix 10E	OSHA HAZWOPER and California Accidental Release Prevention Program Information.....	App 10E-i
Appendix 10F	CERCLA List of Hazardous Substances and Reportable Quantities.....	App 10F-i

Appendix 11A	OSHA Hazard Communication Checklist	App 11A-i
Appendix 11B	Sample Hazard Communication Program	App 11B-i
Appendix 11C	California List of Hazardous Substances	App 11C-i
Appendix 12A	Sample Hearing Conservation Plan	App 12A-i
Appendix 12B	Sample Respiratory Protection Program.....	App 12B-i
Appendix 12C	Injury and Illness Prevention Program Guidance Document.....	App 12C-i
Appendix 13A	Sample Hazardous Waste Job Descriptions.....	App 13A-i

Figures and Tables

Figure 1A	Corrective Action Plan.....	Fig 1A-i
Figure 1B	Management of Change	Fig 1B-i
Figure 4A	Waste Survey	Fig 4A-i
Figure 4B	Container Storage Area Inspection Form	Fig 4B-i
Figure 4C	Hazardous Waste Storage Tank Inspection Form.....	Fig 4C-i
Figure 4D	Waste Recycler/TSD Facility Evaluation Worksheet.....	Fig 4D-i
Figure 4E	Waste Tracking Log.....	Fig 4E-i
Figure 4F	Universal Waste Facility Survey	Fig 4F-i
Figure 8A	UST System Assessment Worksheet.....	Fig 8A-i
Figure 8B	Monthly Inventory Control Log.....	Fig 8B-i
Figure 8C	Manual Tank Gauging Log.....	Fig 8C-i
Figure 9A	National Fire Protection Association Hazard Label	Fig 9A-i
Figure 10A	Emergency Contacts	Fig 10A-i
Figure 12A	Demounting and Mounting Procedures for Truck/Bus Tires chart [Source: OSHA; partial version]	Fig 12A-i
Table 4A	Common Hazardous Wastes from Vehicle Maintenance Operations	4-5
Table 4B	Listed Hazardous Wastes.....	4-9
Table 4C	Summary of Generator Requirements	4-16
Table 4D	Materials with VOCs Common in Vehicle Maintenance Operations	4-52
Table 6A	Industries Subject to Stormwater Effluent Limitations Guidelines (by SIC code).....	6-9
Table 10A	RQs for Common Hazardous Substances	10-15