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Autore	Johnson Robert W (Robert William), <1955->
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Nota di contenuto	Essential Practices for Managing Chemical Reactivity Hazards; Contents; Preface; Acknowledgments; Abbreviations and Acronyms; 1 Introduction and Overview; 1.1. Purpose; 1.2. Need; 1.3. Unintentional/Intentional Chemistry Incidents; 1.4. How to Use This Publication; 1.5. Related Resources; 2 Chemical Reactivity Hazard Management; 2.1. Key Considerations for Managing Chemical Reactivity Hazards; 2.2. Life Cycle Issues; 2.3. Existing Management Systems; 2.4. Product Stewardship; 3 Preliminary Screening Method for Chemical Reactivity Hazards; 3.1. Intentional Chemistry 3.2. Mixing and Physical Processing3.3. Storage, Handling, and Repackaging; 4 Essential Management Practices; 4.1. Put into Place a System to Manage Chemical Reactivity Hazards; 4.2. Collect Reactivity Hazard Information; 4.3. Identify Chemical Reactivity Hazards; 4.4. Test for Chemical Reactivity; 4.5. Assess Chemical Reactivity Risks; 4.6.

Identify Process Controls and Risk Management Options; 4.7.
Document Chemical Reactivity Risks and Management Decisions; 4.8.
Communicate and Train on Chemical Reactivity Hazards; 4.9.
Investigate Chemical Reactivity Incidents
4.10. Review, Audit, Manage Change, and Improve Hazard Management
Practices and Program5 Worked Examples; 5.1. Intentional Chemistry
Example; 5.2. Combustor Example; 5.3. Repackaging Example; 5.4.
Physical Processing Example; 5.5. Mixing Example; 5.6. Oxygen System
Example; 6 Future Work on Chemical Reactivity Hazards; 6.1. Inform;
6.2. Communicate; Glossary; References; A-1. Case Histories; A-2. An
Inherently Safer Process Checklist; A-3. Executive Summary of CSB
Investigation Report; Contents of CD-ROM; Index

Sommario/riassunto

In its recent investigation of chemical reactivity accidents, the US Chemical Safety Board noted a gap in technical guidance and regulatory coverage. This volume closes the gap in technical guidance, helping small and large companies alike identify, address, and manage chemical reactivity hazards. It guides the reader through an analysis of the potential for chemical reactivity accidents to help prevent fires, explosions, toxic chemical releases or chemical spills. This volume is applicable to processes at any scale and is particularly useful for chemists, safety managers, and engineers involv
