1. Record Nr. UNINA9910877495403321 Autore Johnson Robert W (Robert William), <1955-> Titolo Essential practices for managing chemical reactivity hazards / / Robert W. Johnson, Steven W. Rudy, Stephen D. Unwin New York, : Center for Chemical Process Safety/AIChE, c2003 Pubbl/distr/stampa **ISBN** 1-282-77425-5 9786612774256 0-470-92530-2 1-59124-619-9 0-470-92529-9 Descrizione fisica 1 online resource (211 p.) Collana A CCPS Concept Book; ; v.17 RudySteven W Altri autori (Persone) UnwinStephen D Disciplina 660.2804 660/.2804 Soggetti Chemical processes - Safety measures Chemicals - Safety measures Chemistry, Technical Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. 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 Processing 3.3. 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.

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Document Chemical Reactivity Risks and Management Decisions; 4.8. Communicate and Train on Chemical Reactivity Hazards; 4.9. Investigate Chemical Reactivity Incidents

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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