

Contents

Introduction	1
B. Bilitewski, R.M. Darbra, and D. Barceló	
 Part I Chemical Additives in a Global Context	
Additives in the Paper Industry	11
Antoni Ginebreda, Daniel Guillén, Damià Barceló, and Rosa Mari Darbra	
Additives in the Leather Industry	35
Daniel Guillén, Antoni Ginebreda, Mira Petrovic, Damià Barceló, Rosa Mari Darbra, and Stefan Rydin	
Additives and Other Hazardous Compounds in Electronic Products and Their Waste	57
Jenny Westerdahl, Mohammed Belhaj, Tomas Rydberg, John Munthe, Rosa Mari Darbra, Alba Àgueda, Susanne Heise, and Lou Ziyang	
Additives in the Textile Industry	83
R.M. Darbra, J.R. González Dan, J. Casal, A. Àgueda, E. Capri, G. Fait, M. Schuhmacher, M. Nadal, J. Rovira, V. Grundmann, D. Barceló, A. Ginebreda, and D. Guillén	
Lubricants and Additives: A Point of View	109
Diego Baderna, Elena Boriani, Fabio Dalla Giovanna, and Emilio Benfenati	
Additives in the Plastics Industry	133
Lauran van Oers, Ester van der Voet, and Veit Grundmann	
 Part II Case Studies	
Problems in Paper Recycling of Vietnam	153
Nguyen Thi Diem Trang	

Case Study on Printed Matter in Denmark	167
Henrik Fred Larsen	
Potential Reuse of Chemical Sludge from Textile Dyeing Processes	183
S. Pandey, H. Patel, and R. Johri	
Risk Management of Chemicals in the Leather Sector: A Case Study from Sweden	207
Stefan Rydin	
Lubricants Recycling – A Case Study: How Italy Managed to Become an Excellence and an Example for the Other EU’s Member States	225
Fabio Dalla Giovanna	
Emissions of Additives from Plastics in the Societal Material Stock: A Case Study for Sweden	253
Tomas Rydberg, Jenny Westerdahl, Elisabet Hallberg, Andreas Öman, Patrik L. Andersson, Peter Haglund, Tomas Holmgren, Filippa Fuhrman, Sverker Molander, and Johan Tivander	
Recycling of Waste Electrical and Electronic Equipment, a Case Study: Brazil	265
M. Araujo, A. Magrini, and C.F. Mahler	
 Part III Conclusions	
Conclusions	281
D. Barceló, R.M. Darbra, and B. Bilitewski	
Index	287

Global Risk-Based Management of Chemical Additives I

Production, Usage and Environmental Occurrence

Bilitewski, B.; Darbra, R.M.; Barcelo, D. (Eds.)

2012, XIV, 290 p., Hardcover

ISBN: 978-3-642-24875-7