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About this book. This book provides the background, organisation, methods, results and recommendations regarding the ecotoxicological classification and assessment of waste. Waste must be characterised, according to the European Waste list, as ecotoxicologically hazardous or non-hazardous. Despite being in force since 2000 no methodological recommendations have been provided to address the hazard criterion (H14 "ecotoxicity") which was taken over from the legislation on dangerous substances.

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This book provides the background, organisation, methods, results

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and recommendations regarding the ecotoxicological classification and assessment of waste. Waste must be characterised, according to the European Waste list, as ecotoxicologically hazardous or non-hazardous. Despite being in force since 2000 no methodological recommendations have been provided to address the hazard criterion (H14 "ecotoxicity") which was taken over from the legislation on dangerous substances.

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Abstract. In Europe hazardous wastes are classified by 14 criteria including ecotoxicity (H 14). Standardized methods originally developed for chemical and soil testing were adapted for the ecotoxicological characterization of wastes including leachate and solid phase tests. A consensus on which tests should be recommended as

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mandatory is still missing.

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The ecotoxicological characterization of waste is part of their assessment as hazardous or non-hazardous according to the European Waste List. Despite its transfer into national law in the waste list ordinance 2001 no methodological recommendations have been provided to cover the hazard criterion (H14 "ecotoxicity") which was taken over from the legislation on dangerous substances ...

Ecotoxicological Characterization of Waste: Results and ...

The latter term classifies waste either as hazardous or non-hazardous, depending on certain physical or chemical properties. The ordinance defines 14 hazard criteria (H criteria), including criterion H14 "ecotoxic," in order to classify waste with regard to properties that render it hazardous. Unfortunately, the LOW is incomplete.

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Ecotoxicological Characterization of Waste : Results and Experiences of an International Ring Test, Hardcover by Moser, Heidrun (EDT); Rombke, Jorg (EDT), ISBN 0387889582, ISBN-13 9780387889580, Like New Used, Free shipping. According to the European Waste List,

Download File PDF Ecotoxicological Characterization Of Waste Results And waste must be characterized as ecotoxicologically hazardous or not.

R. Wagner The European list of wastes (LOW) (Commission Decision 2000/532/EC and updates) is the basic foundation for the implementation of waste legislation in Europe. It contains a harmonized list of different types of waste and categorizes them according to their origin or generation process. It provides for a uniform description of wastes through the application of a uniform nomenclature and the assignation of certain waste code numbers, for example, in permits or for monitoring purposes. It also labels those hazardous wastes that are subject to a number of special provisions in both European and national legislation, for example, with regard to

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monitoring, licenses for installations, and national obligations regarding giving notice and transfer of responsibilities. The Waste Catalogue Ordinance (AVV) transposed the European LOW into German legislation in late 2001. This ordinance encompasses 840 codes of waste in 20 main chapters, classifies 400 types of waste as hazardous, and contains mirror entries for about 200 types of waste. The latter term classifies waste either as hazardous or non-hazardous, depending on certain physical or chemical properties. The ordinance defines 14 hazard criteria (H criteria), including criterion H14 “ ecotoxic, ” in order to classify waste with regard to properties that render it hazardous. Unfortunately, the LOW is incomplete. Depending on the classification of hazardous, specific concentrations of solids are laid down for the majority of properties relevant for health and workers ’ protection.

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This book includes over three hundred and seventy-five short papers presented during the second EMCEI, which was held in Sousse, Tunisia in October 2019. After the success of the first EMCEI in 2017, the second installment tackled emerging environmental issues together with new challenges, e.g. by focusing on innovative approaches that contribute to achieving a sustainable environment in the Mediterranean and surrounding regions and by highlighting to decision makers from related sectors the environmental considerations that should be integrated into their respective activities. Presenting a wide range of environmental topics and new findings relevant to a variety of problems in these regions, this volume will appeal to anyone working in the subject area and particularly to students interested in learning more about new advances in environmental research

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initiatives in view of the worsening environmental degradation of the Mediterranean and surrounding regions, which has made environmental and resource protection into an increasingly important issue hampering sustainable development and social welfare.

This edited book, *Invertebrates-Experimental Models in Toxicity Screening*, is intended to provide an overview of the use of conventional and nonconventional invertebrate species as experimental models for the study of different toxicological aspects induced by environmental pollutants in both aquatic and terrestrial ecosystems. Furthermore, it is hoped that the information in the present book will be of value to those directly engaged in the handling and use of environmental pollutants and that this book will continue to meet the expectations and needs of all interested in the different aspects

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Bio-Geotechnologies for Mine Site Rehabilitation deals with the biological, physical, chemical, and engineering approaches necessary for the reclamation of mine waste. As mining has negative effects on natural resources and deteriorates the quality of the surrounding environment, this book provides coverage across different types of mining industries, which are currently creating industrial deserts overloaded with technogenic waste. The book offers cost-effective strategies and approaches for contaminated sites, along with remediation and rehabilitation methods for contaminated soils and waste dumps. It is an essential resource for students and academics, but is also ideal for applied professionals in environmental geology, mineral geologists, biotechnologists and policymakers. Deals with

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global and holistic approaches of abandoned mine land rehabilitation
Includes mine waste rehabilitation case studies from around the world
Covers integrated technologies, such as bioremediation of
metalliferous soil Provide strategies for sustainable ecosystems on mine
spoil dumps Offers novel methods for the remediation of acid mine
drainage

This is the third volume of the five-volume book series “ Engineering
Tools for Environmental Risk Management ” . The book series deals
with the following topics: • Environmental deterioration and
pollution, management of environmental problems • Environmental
toxicology – a tool for managing chemical substances and
contaminated environment • Assessment and monitoring tools, risk
assessment • Risk reduction measures and technologies • Case

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studies for demonstration of the application of engineering tools. The authors aim to describe interactions and options in risk management by providing a broad scientific overview of the environment, its human uses and the associated local, regional and global environmental problems; interpreting the holistic approach used in solving environmental protection issues; striking a balance between nature's needs and engineering capabilities; understanding interactions between regulation, management and engineering; obtaining information about novel technologies and innovative engineering tools. This third volume provides an overview on the basic principles, concepts, practices and tools of environmental monitoring and contaminated site assessment. The volume focuses on those engineering tools that enable integrated site assessment and decision making and ensure an efficient control of the environment. Some topics supporting

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sustainable land use and efficient environmental management are listed below:

- Efficient management and regulation of contaminated land and the environment;
- Early warning and environmental monitoring;
- Assessment of contaminated land: the best practices;
- Environmental sampling;
- Risk characterization and contaminated matrix assessment;
- Integrated application of physical, chemical, biological, ecological and (eco) toxicological characterization methods;
- Direct toxicity assessment (DTA) and decision making;
- Online analyzers, electrodes and biosensors for assessment and monitoring of waters.;
- In situ and real-time measurement tools for soil and contaminated sites;
- Rapid on-site methods and contaminant and toxicity assessment kits;
- Engineering tools from omics technologies, microsensors to heavy machinery;
- Dynamic characterization of subsurface soil and groundwater using

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membrane interface probes, optical and X-ray fluorescence and ELCAD wastewater characterization; • Geochemical modeling: methods and applications; • Environmental assessment using cyclodextrins. This book series focuses on the state of knowledge about the environment and its conscious and structured application in environmental engineering, management and decision making.

"In recent decades, global plastics production and consumption have continued to increase. Although many policy strategies on waste prevention and recycling have been implemented, much of the plastic waste is dispersed in nature. In general, the presence of waste in the aquatic environment is a serious environmental problem, well known as marine waste, and is responsible for environmental, economic, health and aesthetic problems at the ocean and regional level and the

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dominant category of waste is plastics. Due to their chemical persistence, buoyancy and increased sources, plastic objects and their fragments (known as "microplastics" (MPLs) and "nanoplastics" (NPLs)) are omnipresent in the marine environment, especially in closed basins such as the Mediterranean Sea. Nowadays, given the increasing levels of plastic pollution in marine environments, MPL/NPL are considered emerging pollutants that can pose a serious threat to marine ecology and human health. Despite constant scientific progress, large gaps in knowledge about the fate, distribution, behaviour and effects of MPLs/NPLs have not yet been filled. In this context, this thesis aimed to expand knowledge on plastic pollution in coastal environments. In particular, the first part of the study focused on the river transport of plastics and the fate and behaviour of MPLs/NPLs in estuaries and coastal waters. The results of one year of

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visual observations of floating anthropogenic macro-litters (> 2.5 cm) of the Llobregat and Besòs Rivers showed that the Barcelona metropolitan area contributes substantially to marine pollution. Large quantities of plastic (mainly single-use goods) were transported from these rivers to the western Mediterranean Sea. Given the significant contribution of plastic waste from rivers, valuable information can be obtained by assessing the spatial distribution of MPLs/NPLs in estuarine environments. To perform these studies, several analytical techniques based on mass spectrometry (MALDI-TOF/MS, DART-MS, and LC-APPI-HRMS) were compared for the quantitative analysis of MPLs/NPLs in water samples. The best results in terms of sensitivity were obtained with dimensional exclusion-LC coupled with APPI-QExactive. Consequently, a new LC-HRMS method was optimized, validated and finally applied to assess the presence of PS in

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natural water samples from the Ebro Delta (Catalonia, Spain). The results reported the highest concentrations along the river near urban areas and in the bay where important commercial fishing activities are established. In addition to plastic pollution, estuaries can be highly contaminated with persistent organic pollutants, especially from wastewater. Since MPLs may also be responsible for the transport and distribution of pollutants, the absorption behaviour of MPLs with perfluoroalkylated substances (PFASs) in freshwater and seawater has been assessed. An increase in adsorption capacity was observed in this order $PS > PS-COOH > PE$. As demonstrated by these results, the plastic pollution of coastal ecosystems, from macro to nano, is a real problem that can lead to serious damage to both nature and society. To protect the coastal environment, its productivity and humans, it is necessary to assess the ecotoxicological impacts on marine organisms and human

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health. In this regard, a new digestion approach has been developed to determine the presence of MPLs in the gastrointestinal tracts of a sentinel species in the Western Mediterranean. The high frequency of plastics and the types of polymers reported in this study confirmed the negative impacts of local fishing gear. Although the ingestion of MPLs by marine organisms is a widely recognised effect of marine plastic waste, very limited data are available on the impact of MPLs, and especially NPLs, on human health. Therefore, cytotoxic effects at the cellular level after exposure to moderate concentrations of PS and PE particles of nanometric size have been assessed. Significant results were reported only at high concentrations of PS. In conclusion, the work presented in this thesis has successfully filled some of the various gaps in knowledge about plastic pollution and its effects. In the future, further tools should be promoted to facilitate the overall analysis of

Download File PDF Ecotoxicological Characterization Of Waste Results And smaller MPLs, including NPLs." -- TDX

This volume presents a selection of papers from the WASTES 2015 conference, a platform for scientists and industries from the waste management and recycling sectors from around the world, who shared experiences and knowledge at the meeting. Covering discussions regarding the balance between economic, environmental and social outcomes, the developme

We are proposing this comprehensive volume aimed at bridging and bonding of the theory and practical experiences for the elimination of a broad range of pollutants from various types of water and soil utilizing innovative nanotechnologies, biotechnologies and their possible combinations. Nowadays, a broad range of contaminants are emerging

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Accidents and improper wastewater treatment requires a fast, efficient and cost-effective approach. Therefore, several innovative technologies of water and soil treatments have been invented and suggested in a number of published papers. Out of these, some nanotechnologies and biotechnologies (and possibly also their mutual combinations) turned out to be promising for practical utilization – i.e., based on both extensive laboratory testing and pilot-scale verification. With respect to the diverse character of targeted pollutants, the key technologies covered in this book will include oxidation, reduction, sorption and/or biological degradation. In relation to innovative technologies and new emerging pollutants mentioned in this proposed book, an important part will also cover the ecotoxicity of selected pollutants and novel nanomaterials used for remediation. Thus, this work will consist of 8

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sections/chapters with a technical appendix as an important part of the book, where some technical details and standardized protocols will be clearly presented for their possible implementation at different contaminated sites. Although many previously published papers and books (or book chapters) are devoted to some aspects of nano-/biotechnologies, here we will bring a first complete and comprehensive treatise on the latest progress in innovative technologies with a clear demonstration of the applicability of particular methods based on results of the authors from pilot tests (i.e., based on the data collected within several applied projects, mainly national project “ Environmentally friendly nanotechnologies and biotechnologies in water and soil treatment ” of the Technology Agency of the Czech Republic, and 7FP project NANOREM: “ Taking Nanotechnological Remediation Processes from Lab Scale to

Download File PDF Ecotoxicological Characterization Of Waste Results And End User Applications for the Restoration of a Clean Environment”).

This multidisciplinary book will be suitable for a broad audience including environmental scientists, practitioners, policymakers and toxicologists (and of course graduate students of diverse fields – material science, chemistry, biology, geology, hydrogeology, engineering etc.).

This book is the result of a Special Issue published in Applied Sciences entitled “ Low Binder Concrete and Mortars”. The main aim of this work is to highlight practical approaches that facilitate the production of low binder content concrete and mortar with an acceptable level of technical performance (e.g., mechanical and durability) and environmental impacts (e.g., ecotoxicological and global warming). Its contents are organized in the following sections: Developing Zero-

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Cement Binder; Ecotoxicological and Chemical Characteristics of the Non-conventional Materials Used to Replace Cement and Natural Aggregates; Reduce the Environmental Impacts and Resources Use of Binders; Modify the Characteristics of the Cement-Based Materials; Low Binder Concrete On-Site Application; Sustainable Cement-Based Materials in Road Engineering.

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