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Hazardous substances management system in brazilian electronic industry

Sistema de gestão de substâncias perigosas na indústria eletroeletrônica brasileira

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ABSTRACT: The electronic industry in Brazil is increasingly involved with environmental performance issues, including those ones related to restriction of substances hazardous to human health and to the environment. The current challenge is to ensure that a specific electronic product does not contain hazardous substances or otherwise that those substances are effectively controlled in all product's constituent materials and during all stages of the production process. The article aims to present main opportunities and challenges of the Brazilian electronic industry in the implementation of a hazardous substances management system (HSMS), based on ABNT IECQ QC 080000:2010, considering that such implementation is an important tool to confront the challenge of providing environmentally friendly electronic products. Keywords: Management system; hazardous substances; electronic sector; ABNT IECQ QC 080000	RESUMO: A indústria de produtos eletroeletrônicos no Brasil está cada vez mais envolvida com as questões de desempenho ambiental, incluindo a necessidade do atendimento a regulamentos que restringem a presença de substâncias que são perigosas para saúde humana e para o meio ambiente. O desafio atual está relacionado com a garantia de que o produto não possui substâncias perigosas ou que as mesmas são controladas de forma efetiva em todos os materiais constituintes do produto e durante todas as etapas do processo produtivo. O artigo tem como objetivo apresentar as principais oportunidades e desafios do setor de eletroeletrônicos brasileiro na implementação de um sistema de gestão de substâncias perigosas (SGSP), baseado na norma ABNT IECQ QC 080000:2010, considerando que esta implementação é uma importante ferramenta no enfrentamento do desafio de oferecer produtos eletroeletrônicos ambientalmente corretos. Palavras-chave: sistema de gestão; substâncias perigosas; setor eletroeletrônico; ABNT IECQ QC 080000
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Hazardous Materials Safety Guide			
CLASS	STORAGE	HAZARD	PPEs
 Flammable	Segregate Storage	Ignite Easily and Burn Rapidly	 Lab Coat Safety Shoes Safety Glasses
 Corrosive	Store Away From Flammable, Reactives and Health Hazards	Causes Tissue Damage on Contact	 Lab Coat Safety Shoes Safety Glasses
 Reactive	Store Away From Corrosives, Health Hazards and Flammables Hazards	Reacts Violently with Air, Water and Other Substances	 Lab Coat Safety Shoes Safety Glasses
 Health Hazard	Secure Storage in Well Ventilated Stockroom	Toxic if Inhaled, Ingested or Absorbed Through The Skin	 Safety Shoes Safety Glasses
 Non Hazardous	Secure Storage in Well Ventilated Stockroom	Presents No More Than a Moderate Hazard	Supervisor's Discretion
 Particularly Hazardous Substances	Carcinogens, Highly Toxic Chemical, and Reproductive Toxins Require Special Precautions. • Develop Standard Operating Procedures (SOPs). • Establish a Designated Work Area. • Use PPEs and Fume Hoods to Control Exposure. • Establish Decontamination and Emergency Response Procedures.		

Major Accident Hazard Control Regulations 6, Land Use Planning 3. Where substances are present in controlled quantities or above, the requirements of the Directive shall apply. ² The national planning policy ³ development plans and the adoption ³ complementary guidelines, which set the framework for the adoption of decisions on such requests, should also take into account the objectives ³ the Directive. Major changes include the updating ³ the list of hazardous substances in line with the adoption ³ new international standards; and new provisions on public participation ³ decision-making. The procedures for applying for such consent, as well as the procedures for planning the authorization ³ development in establishments or for a particular development near establishments, are designed to ensure that risks to humans and the environment are taken into account. These regulations cover, for example, on-site security measures, requirements for the preparation ³ on-site security management systems ³ emergency plans and site ³. The Directive specifies the designated substances and the gene categories of substances together with the controlled quantities. This circular replaces Circulars 5/1993 of the Scottish Office's Department for the Environment: Control of Planning ³ Dangerous Substances, Hazardous substance planning controls: consequent modifications; and 16/1993: consent of hazardous substances - guide for the industry, which are now revoked. 4. In Scotland, Comash Standards are applied by a competent authority integrated by the Health and Safety Executive (HSE) or, in the case of relevant nuclear sites, the Nuclear Regulation Office (ONR). (ONR). the Scottish Environment Protection Agency (SEPA) ³ acting jointly. We also took the opportunity to remove Circular 13/1976 from the Scottish Development Department: The Petroleum and Submarine Pipelines Act 1975 - Refinery Controls, as that Act was repealed some time ago. ³ legislation 5. Finally, public participation procedures exist ³ also take into account the requirements of the Directive in relation ³ public participation in decision-making, in accordance with the UNECE Aarhus Convention. We have also updated a number of procedures for requesting consent and ³ of hazardous substances to the procedures for applying for planning permission³ and appeals ³. The elements of land-use planning ³ require that the objectives of the Directive be taken into account in planning policies and decisions, including ³ by maintaining adequate safety distances between the main danger sites and other development sites and the protection ³ areas of natural sensitivity. These hazardous substances are referred to as "hazardous substances" for the purposes ³ national planning ³. Much of the Directive is implemented through the 2015 Major Accident Hazard Control Regulation (COMAH Regulation), which applies to Britain as a whole. In Scotland, the land-use planning aspects ³ the Directive are implemented through the Urban and Rural Planning (Hazardous Substances) (Scotland) Regulations 2015 (² 2015). The 2015 Regulation repeals and replaces the 1993 Urban and Rural Planning (Dangerous Substances) (Scotland) Regulation (¹ 1993 Regulation). These Regulations include: authorization requirements ³ the presence of dangerous substances in controlled quantities or in excess (including the use of the of adiciÃ ³ n); procedures for submitting consent applications (including appeals); enforcement procedures ³ (including enforcement actions ³) for infringements of the control of hazardous substances; changes in urban ³ rural planning Planning Regulations (¹) (Scotland) 2008 (the RPD) with respect to the preparation ³ development plans and the complementary guidance ³ adopted; Amendments to CITY AND COUNTRY PLANNING (DEVELOPMENT MANAGEMENT PROCEDURE) (SCOTLAND) Regulations 2013 (DMR.) with respect to publicity and consultation requirements for planning permission applications ³ the development of sites with hazardous substances in relevant quantities (so-called establishments) or development near such sites; requirements on the preparation ³ the national planning ³ policy; Requirements for public participation ³ planning permit applications, related local reviews and appeals ³ other mechanisms for granting planning permission ³ development relevant to the Directive; Public commitment requirements for certain plans and programs; and provisions that enable and govern the electronic ³ of information in relation ³ applications and appeals ³ hazardous substances. The directive aims to prevent major accidents and limit the consequences of such accidents. Guidance ³ the Comah regime is available at the HSE and can also be found on its website (see Annex M). METER).

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