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Principles of Chemical Management in the Textile and Garments Industry in Bangladesh to be considered

- 1. Good chemical management practices
 - 1.1 Inventory of chemicals General Principles
 - 1.2 Establishing and maintaining chemical inventory
 - 2. Using reliable information sources on chemical substances and mixtures
 - 2.1 General Principles
 - 2.2 Chemical labeling and marking
 - 2.3 Using safety data sheets
 - 3 Identifying and assessing chemical hazards and risks
 - 3.1 General principles
 - 3.2 Assessing, classifying, and mapping chemical hazards and risks
 - 3.3 Monitoring chemicals and exposure in the workplace
 - 3.4. Medical and health surveillance
 - 4 Selecting and purchasing chemicals with consideration of sustainability aspects
 - 4.1 General information:
 - 4.2 Referring to lists and requirements of regulated and restricted substances
 - 4.3 Establishing and maintaining chemical procurement and purchasing policy and practices
 - 4.4 Tracing chemicals in production process
 - 5 Managing and controlling chemicals risks
 - 5.1 Substitution of hazardous substances
 - 5.2 Elimination of hazardous substances
 - 5.3 Using measures for controlling chemical hazardous to health
 - 5.4 Control measures for flammable, dangerously reactive or explosive chemicals
 - 5.4.1. Good design and installation practice
 - 5.4.2. Use of safe work systems and practices
 - 5.5 In-process measures for reducing the environmental impact of chemicals
 - 6 Ensuring safe storage and transport of chemicals
 - 6.1 Applying good chemical storage practices
 - 6.2 Applying practices in onsite and offsite transport of chemicals and chemical waste
 - 7 Preparing and responding to chemical emergencies
 - 7.1 Planning and preparing for chemical emergencies
 - 7.2 Dealing with fire and explosions
 - 7.3 Dealing with chemical spills and leaks
 - 7.4 Dealing with medical emergencies involving chemicals
 - 8. Managing chemical waste and residues





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- 8.1 General Principles
- 8.2 Managing chemical containing wastewater and treatment sludge
- 8.3 Managing solid chemical waste
- 8.4 Controlling releases of chemicals into the air
- 9. Establishing chemical management system and organisational structure
 - 9.1 Defining roles and responsibilities
 - 9.2 Developing chemical policy and management system
 - 9.3 Planning and implementing chemical improvement measures
 - 9.4 Using a quality assurance programme and monitoring performance of chemical
 - 9.6 Investigation and reporting of accidents, occupational diseases and other incidents
 - 9.7 Auditing, monitoring and reporting on chemical management system performance

10. Other

- ✓ Relevant national legislation, regulations, guidelines and standards pertaining to various aspects of chemical management
- The Bangladesh Environment Conservation Act, 1995
- The Environment Conservation Rules, 1997
- Ozone Depleting Substances (Control) Rules, 2004 including amendment in 2014
- Hazardous waste and ship breaking waste management rules 2011
- Bangladesh Standards and Guidelines for Sludge Management
- National 3R Strategy for Waste Management
- Bangladesh National Building Code 2015 (draft)
- ✓ Relevant international reference standards
- European Integrated Pollution Prevention and Control Bureau (EIPPCB) Best Available Techniques (BAT) reference document in the textile industry
- Umweltbundesamt (Germany) Environmental standards in the textile and shoe sector A
 Guideline on the Basis of the BREFs
 - Best Available Techniques Reference Documents of the EU
- BAUA (German Federal Institute for Occupational Safety and Health) Technical Rules for Hazardous Substances (TRGS)
- United Nations Economic Commission for Europe (UNECE) Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
- Chemical Risk Assessment: Overview and Examples
- OECD Due Diligence Guidance for Responsible Supply Chains in the Garment & Footwear Sector
- Sustainable Apparel Coalition (SAC) Higg FEM 3.0 Chemical management
- International Labour Organisation (ILO) C170 Chemicals Convention, 1990 (No. 170)
- International Labour Organisation (ILO) R177 Chemicals Recommendation, 1990 (No. 177)
- International Labour Organisation (ILO) Safety in the use of chemicals at work. An ILO code of practice
- Zero Discharge of Hazardous Chemicals (ZDHC)
- ZDHC Chemical Management System
- ZDHC Manufacturing Restricted Substances List (MRSL)
- ZDHC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP)
- ZDHC Technical Industry Guide
- ZDHC Wastewater Guidelines version 1.1





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- bluesign SYSTEM SUBSTANCES LIST (BSSL)
- European Chemical Agency (ECHA) REACH
- Stockholm Convention on Persistent organic Pollutants (POPs)
- Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal
- Strategic Approach to International Chemicals Management (SAICM)

Relevant guidance references and training materials

- COSHH e-tool
- Easy-to-use Workplace Control Scheme for Hazardous Substances (EMKG) Federal Institute for Occupational Safety and Health, Germany
- European Union DG for the Environment EMAS "easy" for small and medium enterprises
- Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
- GIZ Basic Training Module for Chemical Management in textile wet processes
- GIZ Advanced Training Module for Chemical Management in textile wet processes
- GIZ Digital Solutions for Substitution of Hazardous Chemicals in the Fashion Supply Chain initiative materials
- GIZ Resource Efficient Management of Chemicals in textile and leather sector companies (REMC), 2017
- Substitution Support Portal
- The International Chemical Secretariat (ChemSec) -
- ChemcSec SIN List
- ChemSec Textile Guide
- International Labour Organisation (ILO)
- Chemical Safety Training Modules
- Safety and health in the use of chemicals at work