



# **The Preparatory Regional Workshop on the Inventory of the Chemicals and Hazardous Waste in the Arab Countries**

***18-19February, 2015, Alexandria- Egypt***

***The Final Report***

## The Report Sections

- Acknowledgments
- Preface
- The Workshop Summary
- Recommendations
- Appendix
  - 1. Agenda
  - 2. Evaluation Sheets and its results
  - 3. List of Participants

## **ACKNOWLEDGEMENTS**

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- ***The Government of Finland***, for their persistent incorporeal and financial support for BCRC-Egypt and its activities through the project the Finnish Government funds, under which this workshop was organized.
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- ***BCRC-Egypt Staff***, for their professional and efficient efforts in organizing and running all BCRC-Egypt local and regional activities.

## **PREFACE**

The Regional Centre for Training and Technology Transfer Basel- in Egypt with the assistance of the Basel Convention Secretariat to organize a regional workshop for two days for officials technicians in the Arab countries has been the main objective of the workshop is to start the inventory and prepare a unified lists of wastes and hazardous chemicals in the Arab countries.

The aims of the workshops were as follow:

- 1- Overview of the international conventions that control the management of chemicals and hazardous waste
- 2- Defining the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)
- 3- Presenting the lists of hazardous waste of the participating Arab countries
- 4- Presenting the Egyptian experience and the lists issued by a number of Egyptian ministries

The workshop targeted the National technical officials responsible for or involved in hazardous Waste Management. 11participants from 9Arab countries attended this workshop: Arab Republic of Egypt, Kuwait, Lebanese Republic, Palestinian Authority, the Republic of Sudan, Jordan, Mauritania and Yemen

## **The Opening Ceremony:**

It began with a speech by **Dr. Mostafa Hussein** in which he mourned the righteous martyrs of Egypt the victims of the terrorist crime that targeted 21 Egyptians in Libya as well as the Jordanian pilot another victim of terrorism. Afterwards, he asked the participants to observe a minute's silence for the martyrs of the Arab world.

Furthermore, Dr. Mostafa Hussein head of Basel center put forward a brief presentation about the latest activities as well as the center's continuity in adhering to the recommendations made by the previous workshops. Dr. Mustafa then presented the goals of this workshop:

- Putting tools for issuing a consolidated list of hazardous waste for the Arab States
- Reviewing the final draft of the law of electronic waste
- Activating the role of the environmental media

This followed by a speech from **Eng. Ahmed abou soaud-Head of the Egyptian Environmental Affairs Agency**, which started by welcoming the participants from Egypt and Arab countries and delineating the ministry of environment attention to the hazardous waste problems. He also represented a number of important projects done in Egypt related to hazardous waste management.

Afterwards, **Mohamed Kona**, the Arab League Representative delivered a short word on behalf of Dr. Nabil Elarbi, the General Secretary of the Arab League. He expressed the Arab League's support for the project and for BCRC-Egypt as a regional center that aids the Arab states in implementing the Basel Convention. He also presented the condolences of the League of Arab States to Egypt. He also thanked **Dr. Gaber Gad Nassar**, , president of Cairo University for his role in supporting Basel center by hosting the center and providing a permanent headquarters **Dr. Gaber Gad Nassar, president of Cairo University**, who supported the efforts of the center in the concern for the environment at the regional level, explained that the concern for the environment is one of the most important economic progress tools.

## **The First Session:**

Chair: Dr.Gaber Nassar –President of Cairo University

Co-chair: Eng. Ahmed abou soaud-head of Egyptian Environmental Affairs Agency

Session title: International Instruments for Controlling Chemicals and Hazardous Waste

**Dr. Mohammed Elzarka – The Egyptian Focal point for the Basel convention** started the session by presenting the international conventions related to controlling chemicals and hazardous waste. He also presented all the activities done in Egypt to implement and enforce theses conventions.

**Dr. Saad Hassan –Head of the National Reference Laboratory for the Ministry of Environment and Former Dean of the Faculty of Science - Ain Shams University** presented the Globally Harmonized System of Classification and Labeling of Chemicals (**GHS**) in different points:

- The estimations of the American Occupational safety and Health Administration (OSHA) about the production volume of hazardous chemicals and the number of individuals at risk to be affected through exposure.
- Definition of the Globally Harmonized System of Classification and Labeling of Chemicals(**GHS**), its importance and the scope of using the elements.
- The benefits from applying the system (for governments – individuals -labor organizations).
- The role of governments, individuals and labor organizations and the industrial sector in the implementation of the system.
- The importance of reviewing the legislations regarding hazardous chemicals

## **Second session:**

Chair: Dr. Mohammed Elzarka- The Egyptian Focal point for the Basel convention

Co-chair: Hanna Abo-Habib, representative of Lebanon

Session title: The Status of Hazardous Waste lists in the Arab Countries

The session started with a speech from **Dr. Mohamed el Awa-UNESCO representative** who thanked Dr. Mostafa Kamel for his suggestion to hold an international conference regarding the **Educational Initiative for an Environment Safe Management** and also focused on some important topics:

- Challenges facing the inventory of hazardous waste
- The importance of education in order to reduce the risk of hazardous waste and the importance of ensuring the participation of all segments of society
- Raising awareness of all segments of society to include future generations in the sustainable development process
- The United Nations launched an initiative to hold an initiative of the Education for Sustainable Development (economic -social-environmental)
- Request the launching of an initiative that issues the information and recommendations of the workshops to the community during the conference which will be held in October with the participation of the Basel center and with the partnership of regional organizations that care about the environment.

Afterwards, **Dr. Mohammed Ismail- representative of the Ministry of State for Environmental Affairs**, talked about the role of ministry of environment in coordination with the Egyptian ministries in issuing lists of hazardous waste. He started his lecture by thanking Dr. Mostafa Hussein for implementing the workshop, a continuation of the previous work and an implementation of one of the most important recommendation for the previous workshop.

The lecture also included:

- Definition from the Egyptian Environmental Law
- Hazardous waste classification (UN-classification and the European-classification)
- Hazardous waste in Egyptian law
- The institutional framework for the management of hazardous materials and wastes in Egypt and the role of the Ministry of Environment in coordinating between the ministries
- The lists and main characteristics of hazardous waste.

- Preparing lists of hazardous waste in Egypt.
- Lists of Hazardous waste issued by the Egyptian ministries.
- The Sources and amount of hazardous waste in Egypt.
- The Egyptian problem in the management of hazardous wastes.
- The efforts of the Ministry of Environment in getting rid of hazardous waste.
- The achievements of the Hashemite Kingdom of Jordan in the field of hazardous waste management.

Furthermore, **Dr. Mustafa Abdel Sattar Hammad - representative of the Ministry of Agriculture and Land Reclamation** represented a comprehensive lecture about on many important topics:

- Dependence on the international references in handling and dealing with pesticides
- Training programs for the monitoring and controlling of pesticides.
- Global pesticides consumption.
- Consumption of pesticides in Egypt.
- The system of registering pesticides in Egypt.
- The lists of hazardous pesticides and its registration.

The completion of the lecture was followed by a presentation from the Palestinian representative

**Dr. Yasser Abou Shanab** on the current situation of hazardous waste in Palestine. The lecture contained the following topics:

- The legal frame regarding hazardous waste
- Palestine and the current situation on international conventions
- Achievements related to the inventory and classification of hazardous waste
- Tentative work plan for the management of hazardous waste
- Main challenges related to the management of hazardous waste
- The appropriate solutions to the challenges related to the management of hazardous waste.
- Agricultural Pesticides Manual
- How to deal with and dispose of hazardous waste,

**Dr. Hani Abdel Aziz- representative of the Ministry of Petroleum** who represented several important topics:

- The lists of hazardous waste in petroleum sector.
- The legal frame to the environmental sound management of hazardous waste
- The methodology to creating a list of hazardous waste in the oil sector
- The hazardous waste handling system within the petroleum sector

**Dr. Nor Azazi - a representative of the Republic of Yemen**, which introduced a comprehensive presentation about the chemicals and hazardous waste situation in the Republic of Yemen:

- Sources of the Hazardous waste
- Source of Environmental pollution in the oil sectors
- Determinants and problems facing the integrated management of hazardous wastes and hazardous chemicals
- National priority
- Projects and programs that need funding

After the completion of the presentations, the representatives of the Egyptian ministries and Arab countries were involved in a panel discussion between the parties involved which covered the following points:

- Technical questions on the contents of the (GHS) program as well as the methodology of operating the system
- The importance of laboratory analysis in the field of hazardous waste .
- Inquiries about the hazardous waste lists issued by the US Environmental Protection Agency
- The presence of hazardous waste in the petroleum sector did not mention the lists issued by the Ministry of Petroleum and how to deal with hazardous waste.

### **The completion of the first day**

## **Second day 19/2/2015**

### **First session:**

**Moderator:** Nadia Zachary –Former Minister of Scientific Research

**Session title:** The International Conventions that Control the Management of Hazardous Waste

**The session began with a presentation from the Sudanese representative, En / set ELNour Hassan** who addressed the current situation of hazardous waste in Sudan through the following topics:

- Classification of chemical hazardous waste
- How to manage hazardous waste
- Radioactive waste
- Central and research laboratories
- Chemical Waste from petroleum sector
- Expired Pesticides
- Waste disposal

Afterwards, **Dr. Yasser Tawfik Selim the representative of the Ministry of Electricity and Energy** presented many important topics that matter to the institutions that manage radioactive elements in Egypt. These topics were as follow:

- 1- The sources of radioactive waste and its classification
- 2- The way to deal with radioactive waste
- 3- The methodology of managing radioactive waste
- 4- The lists of the hazardous waste by the Ministry of Electricity and Energy

Furthermore, **Dr. Yossri Hussein the representative of the Ministry of Health** put forward various points regarding the medical hazardous waste, its classification and its inventory. They were as follow:

- 1- The number of hospitals and health institutions
- 2- The amount of hazardous waste generated each day
- 3- The global definition of hazardous waste according to the Basel convention
- 4- The classification of hazardous medical waste
- 5- The steps followed to deal with medical waste
- 6- The efforts of the Ministry of Health in managing the system of safe disposal of hazardous medical waste

**Dr. Gehan El kholi the representative of Ministry of Higher Education** presented various points concerning:

- 1-The type of medical waste generated by the universities' hospitals
- 2-A briefing on the Cairo University Hospital and the Ain Shams University Hospital
- 3-The classification of the medical waste
- 4-The definition of medical waste by the World Health Organization
- 5-The fundamentals used to assess the amount of medical waste generated by the hospitals
- 6- The model of the management system used for the disposal of medical waste

**Dr. Hoda William the representative of the Ministry of Industry** put forward the list of chemical components and hazardous waste that are generated by the ministry as well as the following points:

- 1-A briefing about the National Institute for Industrial Development
- 2-The importance of classifying waste as hazardous or non-hazardous
- 3- The management of industrial waste

### **Second Session:**

The participants were divided into working groups to discuss the following topics:

- 1-The challenges faced by the Arab countries in the management of hazardous waste
- 2- The construction of a plan to publish a unified list of the hazardous wastes in the Arab countries

### **First Group:**

Leading the Group: Dr. Mohamed Ismail- Egypt

Team: Sudan's representative, Jordan's representative, representative of the Ministry Health and the representative of the Ministry of Electricity

### **Second Group:**

Leading the Group: Dr. Molai-Mauritania

Team: Palestine's Representative, Representative of Ministry of Agriculture, Representative of Ministry of Higher Education

### **Third group:**

Leading the Group: Dr. Hana Habib-Lebanon

Team: Yemen's representative, Kuwait's representative, Algeria's representative, representative of Ministry of Industry, representative of Ministry of Petroleum

The discussions ended with the presentation of several recommendations

## **Recommendations of the Working Groups:**

- 1- BCRC must become responsible for creating a comprehensive list of the chemicals and hazardous waste in each country that is to be printed and distributed
- 2- Developing a reference law concerning the management of hazardous waste
- 3- Make BCRC responsible for the technical and financial aid of the Arab countries that did not develop lists
- 4- The creation of a time plan between 3 to 6 months for the inventory of already existing lists
- 5- The creation of a committee that meets periodically to assess the situation in regards to the management of hazardous waste in the Arab countries.

After presenting the recommendation of the workshops side sessions were held concerning:

- 1- The First Session: Discussion of the final draft concerning the legislations concerning electronic waste
- 2- The Second Session: The environmental media and the Arab institutions that are concerned with the environment as partners in development

### **The First Session:**

#### **Leading the Session: Dr. Gaber Nsar-President of Cairo University**

Discussion of the final draft of the legislations concerning electronic waste

**Dr. Mohamed Farouk the representative of Ministry of Environmental Affairs**, who presented the final draft of the legislations concerning electronic waste on the participants. Several points were brought to the discussion.

### **The Second Session:**

#### **Leading the session: Dr. Mostafa Hussein-President of BCRC**

**Mr. Alaa Ahmed a journalist in Bawabah Ahram Electronic** did a presentation on the role of environmental media and the important role of the media.

### **The Closing Session**

This session started with a brief speech delivered by Prof. Mostafa Kamal, in which he expressed his happiness for the clear success of the workshop and thanked the participants and the lecturers for their effective participation. Finally.



## The Preparatory Regional Workshop on the Inventory of the Chemicals and Hazardous Waste in the Arab Countries

*18th-19th of February, 2015, Egypt*

First Day (18 <sup>th</sup> of February, 2015)	
9:00-9:30	Registration
Opening Session	
09:30-10:30	Opening Remarks
10:30-11:00	Coffee break
Session I: International instruments controlling chemicals and Hazardous Waste	
11:00 -1:00	<p><b>-Dr. Mohammed Elzarka – The Egyptian Focal point for the Basel convention</b> Overview on the international instruments controlling chemicals and Hazardous Waste management</p> <p><b>-Dr. Saad Hassan –Head of the National Reference Laboratory for the Ministry of Environment and Former Dean of the Faculty of Science - Ain Shams University</b> The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)</p>
1:00-2:00	Lunch break
Session II: The status of Hazardous Waste lists in the Arab Countries	
2:00-4:00	<p><b>-Dr. Mohamed Ismail –The Egyptian Ministry of Environment</b> The Role of the Ministry of Environment in the coordination between other Ministries</p> <p><b>-Dr. Mostafa Abdelstar - The Egyptian Ministry of Agriculture</b> Vision about the Management of Pesticides in Egypt.</p> <p><b>-Palestine Representative</b> Current status of Hazardous Waste management in Palestine.</p> <p><b>-Dr. Hany Abdel Aziz – The Egyptian Ministry of Petroleum</b> Hazardous Waste lists in the petroleum sector</p> <p><b>-Yemen Representative</b> Current status of Hazardous Waste management in Yemen.</p>
4:00 – 5:00	Plenary discussion
Second Day (19 February 2015)	
Session I: The status of Hazardous Waste lists in the Arab Countries	
9:00-11:00	<p><b>-Sudan Representative</b> Current status of Hazardous Waste management in Sudan.</p> <p><b>-Dr.Yasser Tawfik Selim - The Egyptian Ministry of Electricity</b></p>

	<p>Lists of Hazardous Waste in the Electricity sector  <b>Dr. Yosri Hussein - The Egyptian Ministry of Health</b>  Lists of Medical Hazardous Waste in the medical sector.  <b>Dr.Jihan El-kholy – Vice President of Cairo University Hospitals</b>  Hazardous Waste management in the Hospitals of Cairo University.  <b>Eng.Hoda William –The Egyptian Ministry of Industry</b>  Hazardous Waste lists in the industrial sector</p>
<b>11:00-11:30</b>	<b>Coffee break</b>
<b>Session II: Working groups</b>	
<b>11:30 -1:30</b>	<p>-Challenges facing the Arab Countries relevant to Hazardous Waste management  -Action plan for launching a unified list of Hazardous Waste in the Arab Countries</p>
<b>1:30-2:30</b>	Lunch break
<b>Session III: Side Sessions</b>	
<b>2:30-3:30</b>	<b>Side session I:</b> Final Discussion for E-Waste legislation Draft
<b>3:30-4:30</b>	<b>Side session II :</b> The Environmental Media
<b>4:30-5:00</b>	<b>Closure of Workshop</b>

**The Preparatory Regional Workshop on the Inventory of the Chemicals and Hazardous Waste in the Arab Countries**  
**Sharm ElSheikh, Egypt, 18th-19th of February, 2015**

استمارة تقييم

الاسم رباعى :	الموقع الوظيفى:
قطاع / قسم / إدارة :	هيئة / وزارة / أخرى:
رقم الهاتف الشخصى :	البريد الإلكتروني:
الدولة:	
عنوان المراسلات (تفصيليا):	

(رجاء ملئ الاستمارة التالية للوقوف على مدى الاستفادة من الندوة وسبل تطويرها المستقبلي)

- 1- هل أضافت ورشة العمل مفاهيم جديدة إلى خبراتكم بشأن حصر الكيماويات و المخلفات الخطرة ؟  
 نعم ( ) لا ( )
- 2- ما هى الوزارات المعنية بوضع قوائم المخلفات الخطرة ببلدكم؟  
☐ الداخلية ☐ الصناعة ☐ الزراعة ☐ البترول  
☐ السياحة ☐ الكهرباء ☐ الصحة ☐ البيئة ☐ أخرى و هى.....
- 3- ما مدى التنسيق بين الوزارات المعنية بوضع قوائم المخلفات الخطرة ببلدكم؟  
 ممتاز ( ) جيد جداً ( ) جيد ( ) لا يوجد ( )
- 4- هل أضافت ورشة العمل معلومات بشأن تعامل بعض الدول العربية الأخرى مع حصر الكيماويات و المخلفات الخطرة ؟  
 نعم ( ) لا ( )
- 5- ما مدى الإستفادة من التفاعل مع المشاركين من الدول العربية الأخرى ؟  
 ممتاز ( ) جيد جداً ( ) جيد ( ) لم تحقق استفادة ( )
- 6- هل يوجد ما كنت تتطلع إليه فى ورشة العمل ولم يتحقق ؟  
 نعم ( ) لا ( )  
 فى حالة الإجابة بنعم، يرجى التوضيح:.....
- 7- هل ترغب فى الاتصال بكم ودعوتكم فى حالة وجود ورشة عمل مقبلة تتناول نفس الموضوعات ؟  
 نعم ( ) لا ( )  
 فى حالة الإجابة بنعم، يرجى كتابة رقم الهاتف و البريد الإلكتروني الشخصيين لكم  
 .....
- 8- ما هو تقييمك العام لورشة العمل ؟  
 ممتاز ( ) جيد جداً ( ) جيد ( ) لم تحقق استفادة ( )
- 9- هل لك مقترحاتك لتطوير أنشطة المركز فى المرات القادمة ؟

## Evaluation Sheet and Results Analysis

**Total Number of Completed Evaluation Sheets = 17**

**Evaluation of the workshop:**

<b>Category</b>	<b>Excellent</b>	<b>Very Good</b>	<b>Good</b>	<b>Mediocre</b>	<b>Weak</b>
<b>The content of the workshop</b>	<b>6</b>	<b>5</b>	<b>4</b>		
<b>The workshop scientific material distributed</b>	<b>5</b>	<b>6</b>	<b>5</b>	<b>1</b>	
<b>General rating on the lecturers workshop</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>4</b>	
<b>The organization and the ease of scientific material</b>	<b>6</b>	<b>3</b>	<b>5</b>	<b>3</b>	
<b>Achieving the goals of workshop</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>2</b>	
<b>The level of organization</b>	<b>6</b>	<b>5</b>	<b>3</b>	<b>2</b>	
<b>The presentation equipment and the means of presentation</b>	<b>5</b>	<b>6</b>	<b>3</b>	<b>3</b>	
<b>The period of the workshop</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>2</b>	
<b>The location of the workshop</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	
<b>The timing of the workshop</b>	<b>7</b>	<b>5</b>	<b>3</b>	<b>2</b>	
<b>The general evaluation</b>	<b>6</b>	<b>7</b>	<b>4</b>		

### The analysis

The results showed that the workshop had achieved main goals.

## List of participants:

Names	Job Title/country	Telephone	E-mail
Mohamed Kona	Arab League Representative	01287224460	Mohamed-konna@hotmail.com
Dr. Mohamed Farouk El Sayed	Ministry of Environmental Affairs - Egypt	01001000744	m.farouk27@hotmail.com
Eng. Set Nour Hassan	Ministry of Environmental Affairs - Sudan	002490918193413	sitnour@yahoo.com
Dr. Yousfi Zahrah	Ministry of Environmental Affairs - Algeria	00213560142817	Zyousfi24@yahoo.com
Dr. Saad Hassan	Professor in the Faculty of Science-Ain Shams University	01222162766	saadsmhassan@yahoo.com
Eng. Ban Ahmed	Jordan	00962795439622	Ban56@yahoo.com
Dr. Hana Habib	Ministry of Environmental Affairs - Lebanon	+9613750252	hannabouhabib@yahoo.com
Dr. Molai Abd El Mo'men	Mauritania	0022244940333	molayelmomen@yahoo.com
Mr. Yasser Abo Shanab	Manager of Public Health Sector - Palestine	00970599264230	Yaser_shanab@hotmail.com
Dr. Mohamed Ahmed El Awah	Head of Environmental Program - UNESCO	01224403034	m.alawaah@unesco.org
Mr. Amr Hamzah	Ministry of Foreign Affairs	01200932202	Omar.khairat84@gmail.com
Dr. Mohamed El Razkah	Egyptian Focal Point		M_elzarka@hotmail.com
Mr. Ahmed Abo El Soud	Head of EEAA	01000906365	Aahmed_hm@yahoo.com
Dr. Mohamed Ismail	Ministry of Environmental Affairs - Egypt	01128219392	m.elsehamy@hotmail.com
Mr. Nour El-Din El Azzazi	Chemistry Specialist-Yemen		noraldeennalazazi@gmail.com
Eng. Hany Mohamed Abd El-Aziz	Ministry of Petroleum-Egypt	01001780679	Hany-abdelaziz@echem.eg.com
Eng. Hoda William Ayoub	General Manager of the Environment Protection Sector in the Ministry of Industry-Egypt	01002816750	Environment_ida@gmail.com
Dr. Gehan El-Kholi	Vice General Manager of Ain Shams Hospitalas	01001678058	Jehanelkholy12@gmail.com
Dr. Mostafa Abd El Satar	The Egyptian Ministry of Agriculture	012221001136	mostafasattar@hotmail.com
Dr. Yosri Ahmed	The Egyptian Ministry of Health	01001820197	Yousry.1956@yahoo.com
Eng. Yasser Tawfik Mohamed	The Egyptian Ministry of Electricity	01004613570	ytselim@yahoo.com
Eng. Lamiaa Abd Allah	Ministry of Environmental Affairs - Kuwait	0096597135151	laraifani@epa.org.kw
Eng. Soad Ahmed	Head of control section - Kuwait	0096599500599	s.tagqi@env.org.kw
Gehan Hussein	Journalist	01223894891	Mrwan.mohamed25@yahoo.com
Sarah Kandil	Journalist	01283647106	<a href="mailto:Sara_mkandeel@yahoo.com">Sara_mkandeel@yahoo.com</a>
Alaa Ahmed	Journalist	010058473006	Alaa.ahram.eg@gmail.com
Dina Raafat	Journalist	010266360068	dinarafaat@hotmail.com