

**We Abdullah II Ben Al-Husain,
King of the Hashemite Kingdom of Jordan**

Pursuant to article (31) of the Constitution,
Based on the resolution of the Council of Ministers on 10th July 1999,
We order the enactment of the following Regulation:

REGULATION NO. (43) FOR THE YEAR 1999

**MANAGEMENT AND CIRCULATION OF
THE HARMFUL AND HAZARDOUS MATERIALS**

**Issued Pursuant to Paragraph (g) of Article (5) and Article (34) of the
Environment Protection Law No. (12) for the Year 1995**

Article One

This Regulation shall be called “Management and Circulation of the Harmful and Hazardous Materials Regulation for the Year 1999” and be put into operation as of the date of its publication in the official gazette.

Article Two

The following words and expressions, wherever mentioned in this Regulation, shall have the meanings assigned thereto hereunder, unless the context provides otherwise:

Board: Environment Protection Board.

Chairman: Chairman of the Board.

Institution: Public Institution for the Protection of Environment.

Director General: Director General of the Institution.

Committee: The Technical Committee which was formed pursuant to the provisions of this Regulation.

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Harmful and

Hazardous Materials: Any simple, compound, mixed material or waste of any thereof whether natural or processed and form a hazard to the environment or to any of its elements as well as the safety of the organisms listed in the Tables annexed to this Regulation.

Banned Materials: Any simple or compound material which is banned in accordance with the legislations in force or pursuant to the international and regional agreements in which the Kingdom is a party therein due to its negative impact on the public health or environment elements and which are outlined in Table No. (1) annexed to this Regulation.

Restricted Materials: The materials whose use is restricted for health or environmental reasons pursuant to a permit issued by the competent authorities in the Institution and which

are outlined in Table No. (2)
annexed to this Regulation.

Waste: Any materials which cannot
be disposed of at the public
garbage dump sites or
drainage networks due to its
hazardous characteristics,
harmful impact on the
environment and the safety
of the organisms and which
require special means for
handling and disposing of
same as are specified in
Table No. (3) which is
annexed to this Regulation.

Article Three

- a- A Technical Committee under the chairmanship of the Director
General and membership of two specialized representatives for
each of the following parties shall be formed:

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- 1- Public Institution for the Protection of Environment
Deputy

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- 2- Ministry of Health
3- Ministry of Agriculture
4- Ministry of Industry & Trade

- 5- Ministry of Water & Irrigation
- 6- Ministry of Finance /Customs Department
- 7- General Command of the Jordanian Armed Forces
- 8- Directorate of Public Security
- 9- Directorate of Civil Defence
- 10- Royal Scientific Society

- b- The nomination of representatives of the parties provided for under paragraph (a) of this article shall be made by a decision of the competent Minister or competent Head or Director of the Department as the case may be, and any of these may name an alternative member to attend the meetings of the committee upon the absence of the incumbent member.

Article Four

- a- The committee shall convene at the invitation of its chairman or by his deputy in the event of his absence whenever the need arises thereto. The meeting shall be legal upon the attendance of at least the majority of its members provided that the chairman or his deputy, in the event of his absence, be amongst them. It shall issue its recommendations to the Board by the majority of two thirds of the votes of the attending members. In the event of a tie, the chairman of the meeting shall have a casting vote.
- b- The chairman of the committee may invite any of those who are specialized and experienced in environment affairs to attend the meetings of the committee in order to seek their opinions without having the right to vote.

Article Five

The committee undertakes to recommend the following matters to the Board:

- a- Classification of the harmful, hazardous, banned and restricted materials as well as the waste thereof.
- b- Set out the scientific and technical means and methods which are necessary for transporting, collecting and storage of the harmful and hazardous materials as well as disposal of the wastes thereof pursuant to the instructions issued for this purpose.
- c- Approve the Forms related to the collection, transporting and storage of the harmful and hazardous materials.
- d- Determine the suitable sites for disposing of the harmful and hazardous materials as well as the wastes thereof and allocate pieces of land at such sites for this purpose.
- e- Any other matters referred by the Board or Chairman to it and requires specialized technical study.

Article Six

- a- The Board may, upon the recommendation of the Director General which is based on the recommendation of the Committee, issue the permits necessary to the industrial and vocational institutions, plants and general and private scientific and medical research centers which deal by any mean whatsoever with the harmful and hazardous wastes and materials.
- b- The Board may, with the same method, cancel any of the permits issued to the parties provided for under paragraph (a) of this article in any of the following cases:

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- 1- If the permit is issued as a result of submission of incorrect or misleading particulars.

- 2- If the party violates the conditions of the permit.
- 3- If hazardous environment effects result from the utilization of the permit which were not contemplated upon the granting of same.

Article Seven

The parties provided for under paragraph (a) of article (6) of the Regulation should conform with the following:

- a- Supply the Institution periodically as determined by the Institution, with the types, characteristics and quantities of chemical and physical materials which are used in its various purposes.
- b- Separate the harmful and hazardous wastes from others and assemble same in suitable containers whose specifications are determined by the Institution.
- c- Dispose of the wastes at the sites appropriated thereto according to the programmes set out by the Institution for this purpose.
- d- Notify the Institution within a maximum period of twenty four hours of any incident which is harmful to the environment showing in the notice the type, place and time of the incident, the injuries ensued therefrom and the measures taken for dealing with this situation.

Article Eight

It is prohibited for any person to carry out the following:

- a- Take in or import any harmful or hazardous wastes into the Jordanian regional territories, waters or airspace or bury same therein.

- b- Dump the harmful or hazardous materials or wastes or any part thereof in any part of the regional territories, waters or airspace in any form whatsoever except in the sites provided for this purpose.
- c- Export any of the harmful or hazardous materials or hazardous waste except by a resolution from the Board upon the recommendation of the committee with due observance to any international agreement relating to this subject.

Article Nine

The Board may, upon the recommendation of the Director General which is based on the recommendation of the Committee, issue the necessary instructions for implementing the provisions of this Regulation Particularly the Instructions relating to the following:

- a- Management and disposal of radioactive waste.
- b- management and disposal of hazardous medical waste.
- c- The charges collected by the Institution in consideration of its services.
- d- Amendment of the Tables annexed to this Regulation.

10th July 1999

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Deputy Prime Minister
cum Minister of
Planning
Dr. Rima Khalaf

Deputy Prime Minister
Marwan Al-Humoud

Prime Minister cum
Minister of Defence
Abdul Ra'ouf
Rawabdeh

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Minister of Awqaf,
Holy & Islamic
Affairs
Dr. Abdul Salam
Abbadi

Minister of Transport
cum Minister of Post &
Communications
Jamal Sarayrah

Deputy Prime Minister
cum Acting Minister
of Youth & Sport
Ayman Majali

Minister of
Information
cum Minister of
Culture
Eng. Naser Al-Lawzi

Minister of Foreign
Affairs
Abdul Ilah Al-Khatib

Minister of
Municipalities, Rural
& Environment Affairs
cum Minister for
Parliamentary Affairs
Tawfiq Kraishan

Minister of Education

Minister of Labour

Minister of Finance

Dr. Izzat Jaradat	Eid Al-Fayez	Dr. Michel Martu
Minister of Interior Nayef Al-Qadi	Minister of Tourism & Antiquities Aqel Bultaji	Minister of Justice Dr. Hamza Haddad
Minister of Water & Irrigation Dr. Kamal Hadadeen	Minister of Energy & Mineral Resources Eng. Sulaiman Abu Ulaim	Minister of Agriculture Eng. Hashem Shaboul
Minister of Industry & Trade Mohammad Asfour	Minister of Public Works & Housing Eng. Husni Abu Ghaida	Minister of Health Dr. Isaac Maraka
Minister of Social Development Dr. Faisal Rufou'		

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Table (1)
Banned Materials

	<u>Chemical Name</u>	<u>Chemical Abstract Service Number CAS</u>
1-	Arsenous acid, sodium salt	14060-38-9
2-	Azoybenzene	495-48-7
3-	BCME	513-78-0
4-	Benzenediamine, 4 methyl – 2.6-bis (methylthio)	106264-79-3
5-	Benxene, (2 chloroethoxy)	622-86-6
6-	Benzenamice, 4.4 (1,1-biphenyl) 2.5- diylbistoxiyibis	94148-67-1
7-	Benzenamine, 2.5, dibutoxy-4,-(4- morpholinyl-isulphate. Propenoic acid 2 (1, 3,	130169-66-3

	3, - trimethyl-5-(2- (1-oxo)	
8-	Benzene. (1, methlethyl) (2-phenylethyl)	77851-17-3
9-	Benzenediaxonium, 4 – (dimethylamino)salt with 2-hydro	124737-31-1
10-	Benzoic acid, 3,3 methlenebis (6-amino-di 2-propenyl)	613860-02-5
11-	Bis (2,2-dimethyl)	85095-61-0
12-	Bis (2,4,6-tris-(1,1-dimethylethyl)phenoxy	85194-62-0
13-	Butenedioic acid(z)-,mono (2 (1-oxo-2-propenyl)oxy)et-est	19201-36-6
14-	Cadmium chloride	10108-64-2
15-	Chloromethyl methyl ether	107-30-2
16-	Chlorobiphenyl	2051-62-9
17-	Chrysotile	12001-29-5
18-	Cis 1,4-Cyclohexane diamine	15827-56-2
19-	Crodolite	12001-29-5
20-	Cyclhexanecarboitrile, 1,3,3,-trimethyl-5-oxo	7027-11-4
21-	di-2-proenoate, methyl ether Ethane, 1,1-dichloro-1-fluoro	1717-00-6
22-	Dinitrotoluenec	121-14-2
23-	Dionaspiro (5,5) undercane-3,3-dicarboxylic acid bis	110843-98-6

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	<u>Chemical Name</u>	<u>Chemical Abstract Service Number CAS</u>
24-	Diphenyl-2,4-trimethylbenzoyl phosphine oxide	73980-60-8
25-	Disodium arsenate	7778-43-0
26-	Ethane. 1,1-dichloro-1-fluoro	1717-00-6
27-	Ethane, 2-chloro-1,1,1,2-tetrafluoro	2837-89-0
28-	Ether with 2-ethyl-2-hydroxymethyl – 1,3-propanediol	82628-30-6
29-	Ether with 2-ethyl-2-hydroxymethyl-1,3-propanediol	82724-30-
30-	Ethyl-1,3-dioxan-5-ylmethyl ester	5467-892-07
31-	Ethylamine distillation residues	79771-098
32-	Ethylidenedi-4,1-phenylene)bis (oxiranylmethoxy)	7866-078

33-	Fluoroacetic acid	144-49-0
34-	Fluorosilicic acid	16961-83-4
35-	Heptaxateratriaoc tonic acid sodium salt	104503-68-6
36-	H-pvrole-2,5-dione, 1,4,6-tribromophenyl)	99789-51-4
37-	Hydormyphenyl ethyl ester phosphoric acid. Alkylesters	129733-59-1
38-	Hydraxinearboxymide, N.N.-(methylenedi-4.1)	124993-63-1
39-	Hydrazine, 4-(1-methylbutoxy)phenyl.monohpy	124992-63-1
40-	Isopropoylamine distillation residues	79771-08-7
41-	Lead arsenate	10102-48-4
42-	Lead sulphate	7446-14-2
43-	Magnesium phosphide	12172-73-5
44-	Mercuric chloride	7487-94-7
45-	Methan, brommodifluoror	1511-62-2
46-	Methanol, trichloro-carbonate (2,1)	32315-10-93-2-3
47-	Mixture: 1,3-benzene diamine, 2-methyl-4,6-bis(methylthio)	983-85-9
48-	Neodecaneperomonic acid. 1,3,3, tetramethyl buty ester	51240-95
49-	N-nitroso-N-methylurea	684-93-5

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	<u>Chemical Name</u>	<u>Chemical Abstract Service Number CAS</u>
50-	Nonylphenoethoxylate	9016-45-9
51-	Octabromobiphenyl	2758-07-7
52-	Oxa-4-azaspiro[4,5]decane, 4-(dichloroacetyl)	71526-07-3
53-	Oxirane, 2,2-(1,6-hexanedilylbis) (oxy methylene) bis	16086-31-4
54-	Oxiranemethanamine, N.N.-(Methylenebi	130728-76-6
55-	PCT	61788-33-8
56-	Pentachlorobenzene	608-93-5
57-	Pentamethyl-4-piperidyl ester	Illegible
58-	Pentanenitrile, 3-amino	75405-06-0
59-	Pfropenoic acid (2, 1,1-dimethyl-2-(1-oxo-2) amino	87320-05-6

60-	Phenol, 4,4 (methylenebis (oxy-2,1-ethanedithio)bis	93589-69-6
61-	Phenol, 4,4-(oxybis (2,1-ethanedithio)bis	90884-29-0
62-	Phenol,4,4-methylethyl)2,6-dimethyl)	5384-21-4
63-	Phenylene) bis (N-oxiranylemtyl) pentaoxahexadec-15-enoic	5482-22-4
64-	Piperazione, 1,1,11,3,5 triaxine 2,4,6 triylt	130277-45-1
65-	Poly (1-oxo-1,6-hexanediyls), alpha-omega	89800-10-2
66-	Poly (oxy (1-oxo-1,6 hexanediyl), alpha-(1-oxo-2-propenyl)	96915-50-0
67-	Poly (oxy-1,21-ethanediyl)alpha, alpha-(1-methyl-	54140-6
68-	Poly (oxy-1,2-athandiy), alpha-hydro-ome, hydroxy-	106158-22-9
69-	Poly(oxy-1,2 ethanediyl)alpha—hydro-3-(oxiranyl-methoxy)	52495-71-3
70-	Poly(oxy-1,4-hutanediyl)alpha-(1 oxy-2-propenyl)	52277-33-5
71-	Polyol carboxylate ester	5223-32-4
72-	Polyoxy (1 oxo-2,6-hexanediyl)-alpha-hydro-omega	96915-49-0

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	<u>Chemical Name</u>	<u>Chemical Abstract Service Number CAS</u>
73-	Potassium N.N.-bis (hydroxy ethyl) tallowamine phosphate	85712-27-2
74-	Potasslum N.N.-bis (hydroxyethyl) cocamine oxide	85712-26-1
75-	Propane, 1,1,1,2,3,3,3,-heptafluoro	4311-89-0
76-	Propanol, 3-mereapto	19721-22-3
77-	Propenoic acid, 7-oxabicycelo (4,1,0) hept-3 ylmethyl este	64630-63-3
78-	Propenoic acid, octahydro-4,7-methano-1 H-indenyl	79637-74-4
79-	Propenoic acid, 2-(2-oxo-3 oxazolidinyl) ether ester	115965-76-6
80-	Propenoic acid, 2-methyl-2-(3 (2 h-	96478-09-0

	benxotrizol-	
81-	Propyl 3-hydroxy-2,2 dimethylpropanoate	85234-01-1
82-	Sulphide, bis (2 chioroethyl)	505-60-2
83-	TCDD	1746-01-6
84-	Tetroxa-3,9-diphosphaspiro (5,5) undereane	126505-35-9
85-	Thalium sulphate	7446-18-6
86-	Tirs (2,3-dibromoprohyl)phosphate	126-72-7
87-	Titanate (Ti 6, 16 (2-)), dipotassium	12056-51-8
88-	Trans, 1,4-Cyclohexanediamine acid	7615-25-0
89-	Tremolite	14567-73-8
90-	Trichlorophenol	95-95-4-0
91-	Urea, (hexahydro-6-methyl-2-oxo-4-pyrimidiny	1129-42-6
92-	White phosphorus	7723-14-0

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Table (2)
Restricted Materials

1-	Acetamide, 2-fluoro	640-19-7
2-	Acetone	67-64-1-2
3-	Acrylamide Grout	79-55-1-3
4-	Acrylate esters	33-55-2-4
5-	Acrylic acid	79-10-7-0
6-	Alkyl phthalates includes	80-8-6-1
7-	Alkylamine tetrachlorophenate	10/1-9-62-0
8-	Aminoundereanoic acid	2432-99-7
9-	Aniline	62-53-0
10-	Anthraquinone	84-65-1-1
11-	Asbestos	1332-21-4

12-	Allyl ether of Tetrabromobisphenol-A	25327-89-2
13-	Benxenamine, 4-isocyanato-N.N-bis (4-oseo	126505-35-9
14-	Benxenamine, 2-chloro-6-methyl	87-63-8
15-	Benzenamine, 4-chloro-2-methyl, hydrochloride	3165-93-3
16-	Benxenamine, 4-chloro-2-methyl	95-69-2
17-	Biphenyl	92-52-4
18-	Bis (2-chloroethxy)-methane	111-91-1
19-	Bis (tribromophenoxy)-ethane	37853-59-1
20-	Bis 92-chloroisopropyl) ether	108-60-1
21-	Bismethylether of Tetrabromosbisphenold-A	37853-61-5
22-	Bisphenol A	98-5-7
23-	Bromo-2,5-dichlorophenol	1940-42-7
24-	Bromobenxyleyanide	532-79-9
25-	Bromoform	75-25-2
26-	Bromophenyl phenyl ether	101-55-3
27-	Aronmatic hydrocarbon fraction	1672-36-0
28-	Carbon oxyflouride	353-50-4
29-	Chloroaniline	106-47-2
30-	Di-2-ethythexyl phthalate	117-81-7
31-	Di-n-butyl phthalate	84-74-2
32-	Dihexyphthalate	68515-50-4 and 84-75-3
33-	Diisodecyl phthalate	68515-49-1 and 26761-40-0
34-	Dimethyl phthalate	131-11-3

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35-	Ditridecyl phthalate	68515-47-9 and 119-06-2
36-	Diundecyl phthalate	3648-20-2
37-	Dichloro-4-nitroaniline	99-30-9
38-	Dichloroanline	95-76-1
39-	Dimethoxy	134-12-10
40-	Dinitroanline	97-02-9
41-	Ethane, 1,1,1,2,2,-pentafluoro	1112-17-9
42-	Ethanol, 2,2- (hexylamino-bis	6752-33-6
43-	H-benxotriaxote, 5-(pentyloxy)	133145-29-6
44-	Hexafluorophylene oxide	428-59-1

Table (3)
Harmful and Hazardous Waste To Be Controlled

- 1y- Residue clinical waste from medical care at hospitals and medical centers and clinics including the radioactive waste.
- 2y- Residue Waste from the production and preparation of the pharmaceutical preparations.
- 3y- Residue waste from the production, preparation and utilization of biological cides and chemical pharmaceutical preparations.

- 4y- Residue waste from the manufacture, preparation and utilization of wood protective chemical materials.
- 5y- Residue waste from the production, preparation and utilization of organic solvents.
- 6y- Residue waste from thermal treatment and cyanide content naturalization processing.
- 7y- Unfit for use and consumed mineral oils waste.
- 8y- Waste from oils/water/hydrocarborn greases/water and emulsifiers.
- 9y- Waste from materials and components containing divinyl with multiple chlore ties (PCBs) an or trivinyl with multiple chlore ties (PCBs) and/or divinyl with multiple rolled ties (PBBs).
- 10y- Waste from tar residue resulting from refining, distillation and any treatment in thermal disintegration.
- 11y- Residue waste from the production, preparation and utilization of ink, dyes, colouring materials, paints and varnish.

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- 12y- Residue waste from the production, preparation and utilization of resins, plastics, glue and adhesive materials.
- 13y- Waste from chemical materials resulting from the research and development activities or unspecifically classified educational and/or new activities where the impact thereof on the human and/or environment is not known.
- 14y- Waste with explosive or radioactive nature which is not subject to another legislation.

15y- Residue waste from the production of chemical materials and photographic processing materials.

16y- Waste resulting from surface treatment of metals and plastics.

17y- Waste in which the following is included in its composition.

18y- Metal Carbons.

19y- Bismuth and bismuth components.

20y- Hexavalent chrome components.

21y- Copper components.

22y- Zinc components.

23y- Arsenic and arsenic components.

24y- Selenium and Selenium components.

25y- Calcium and calcium components.

26y- Antimony and antimony components.

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27y- Tellurium and tellurium components.

28y- Mercury and mercury components.

29y- Thallium and thallium components.

30y- Lead and lead components.

31y- Inorganic fluor components save the calcium fluoride.

32y- Inorganic cyanide components.

33y- Acid solutions or solid state acids.

34y- Rock silk (asbestos) (dust or fiber)

35y- Organic cyanide components.

36y- Organic cyanide components.

37y- Phenol and phenol components including chlorphenol.

38y- Ether compounds.

39y- Organic solvents save the hybrid solvents.

40y- Any material similar to the digasoline boiling in the multiple chlore ties.

41y- Any material which is similar to the dioxine with digasoline with multiple chlore ties.