



UNEP



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**Rotterdam Convention on the Prior Informed
Consent Procedure for Certain Hazardous
Chemicals and Pesticides in International Trade
Chemical Review Committee**

Fifth meeting

Rome, 23–27 March 2009

Item 4 (b) (vii) of the provisional agenda*

Listing of chemicals in Annex III of the Rotterdam Convention:

Review of notifications of final regulatory actions to ban or severely restrict a chemical: hexachlorobenzene

**Hexachlorobenzene: supporting documentation provided by
Panama**

Note by the Secretariat

The Secretariat has the honour to provide, in the annex to the present note, documentation received from Panama to support its notification of final regulatory action on hexachlorobenzene as an industrial chemical.

* UNEP/FAO/RC/CRC.5/1.

Annex

Resolution No. AL74-Adm, Panama, 18 September 1997

(Translated from Spanish)

Republic of Panama
Ministry of Agricultural and Livestock Development

Resolution No. ALM74-Adm, Panama, 18 September 1997

**The Ministry of Agricultural and Livestock Development,
in the exercise of its legal powers,**

Whereas:

It is the responsibility of the Ministry of Agricultural and Livestock Development to adopt measures which will enable producers to have at their disposal an acceptable volume of good quality pesticides for use in agriculture and it is the responsibility of the Ministry of Health to ensure that these substances do not cause problems to the health of the population and the environment;

Article 70 of Act 47 of 9 July 1996, stipulating phytosanitary protection measures and laying down other provisions, determines that the Ministry of Agricultural and Livestock Development, together with the Ministry of Health, will implement all the provisions related to the regulations on all matters relating to pesticides;

Executive decree No.19 of 10 April 1997 clearly defines the area of responsibility of each sector in its attributes and functions, and establishes a Technical Working Group comprising civil servants from the Ministry of Agricultural and Livestock Development and from the Ministry of Health to analyse, revise and advise on the implementation of the regulations in force on pesticides;

It is the responsibility of the Ministry of Agricultural and Livestock Development together with the Ministry of Health, in the context of their respective areas of responsibility, to restrict, prohibit or repeal the registration, admission, manufacture, assembly and use of pesticides and fertilizers for agricultural use in the country in cases where such action is justified for technical and scientifically proven reasons;

There is a list of pesticides and substances in use in agriculture which have been proven to be persistent and are highly carcinogenic, mutagenic, teratogenic and sterilizatory either in themselves or because they contain other substances that are of danger to the population and environmental sustainability;

No measures adopted to regulate exposure to these pesticides can reduce the risks to acceptable levels or ensure the availability of alternative products which would be effective, economically competitive, viable for agricultural production and demonstrably safe for the population and environmental sustainability;

The Technical Working Group, composed of civil servants from the Ministry of Agricultural and Livestock Development and from the Ministry of Health, in a meeting held on 10 August 1997, agreed to draw up a list of pesticides banned in the Republic of Panama, based on the determination set out in the present resolution;

In consequence,

Resolves:

First: To define as a pesticide prohibited for use in agriculture in the Republic of Panama any phytosanitary product containing an active ingredient or active substance which has been placed on the market under the conditions set out below:

1. It has not been registered with the Ministry of Agricultural and Livestock Development;
2. Its import, manufacture, assembly, distribution, sale, transportation and use have not been authorized;

3. Scientific studies and verifications carried out subsequent to registration have proved that it causes irreversible damage to human health, the environment or agriculture. Such studies and verifications must be approved by the Ministry of Agricultural and Livestock Development;
4. Its registration, manufacture, assembly, distribution, sale and use have been cancelled;
5. It has been declared a banned substance by the Government of the Republic of Panama.

Second: It is forbidden to register, import, manufacture, assemble, formulate, re-package, re-crate or sell the following pesticides for agricultural use in the Republic of Panama:

Pesticides banned from agricultural use in the Republic of Panama

N°	Active ingredient or substance	Chemical group	Chemical name (IUPAC)	Use or effect
1	2,4,5-T, its salts and esters	Phenoxyacetic	Acid 2.4.5 trichlorophenoxyacetic, its salts and esters, among which are: <ul style="list-style-type: none"> • 2.4.5-T • Acid potassium salt 2 4.5-T (2,4,5-TCP) 	Herbicide
2	2,4,5-TB	Chlorophenoxybutyric	Acid 4-(2,4,5-trichlorophenoxy)-butyric	Herbicide
3	Fluoroacetic acid, its salts and derivatives	Fluoroacetate	Fluoroacetic acid, its salts and derivatives, among which are: <ul style="list-style-type: none"> • Sodium fluoroacetate • Sodium 2-fluoroacetamide 	Insecticide, rodenticide
4	Acrylonitrile	Cyanic	Acrylonitrile (vinyl cyanic)	Fumigant, insecticide
5	Aldric	Chlorinated dimethanonaphthalene	(1R,4S,4a,S,5,8R,8aR,-)-1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-dimethanonaphthalene	Insecticide
6	Aminocarbon	Carbonated phenyl methyl	4-dimethylamine-m-tolyl-methylcar bonate	Insecticide
7	Amitrol	Aminotriazole	1 H-1 2.4 (3 triazole) amine	Herbicide
8	Anabasine	Pyridile	(S)-3-(epiperidiny) -pyridine	Insecticide
9	Aramite	Butyl phenoxyide	2(p-tert-butyl-phenoxy)-2-isopropyl-2-chloroethyl sulphite	Acaricide
10	Cyclohexamide	Ethylglutarimide	4-[(2R)-2-[(1S,3S,5S)-(3,5-dimethyl-2-oxocyclohexyl)]-2-hydroxyethyl]-2,6-piperidinedione	Growth regulator
11	Chloranil	Benzoquinone	2,3,5,6-tetrachloro-1,4-benzoquinone	Fungicide
12	Chlordane	Methano indenochlorinated	1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoindine	Insecticide
13	Chlordecone	Chlorinated Cycodezanone	decachloropentacyclo[5.2.1.0 ^{2,6} .0 ^{3,9} .0 ^{5,8}]4-decanone	Insecticide

N°	Active ingredient or substance	Chemical group	Chemical name (IUPAC)	Use or effect
14	Chlordimeform	phenamidine	N ² -(4-chloro-o-tolyl)-N ¹ -N ¹ -dimethyl Formamidine	Insecticide, acaricide, ovicide
15	Chloroform	Chloromethane	Trichloromethane	Fumigant, insecticide
16	Chloropicrin in a concentration of >2%	Chlorinated nitromethane	Trichloronitromethane	Fumigant, insecticide, fungicide, nematocide
17	Vinyl chloride	Alkaline halogen	Ethyl chloride	Additive
18	Components with an arsenic base (salts and derivatives)	As-R	Such as: <ul style="list-style-type: none"> • Calcium arsenate • Lead arsenate • Copper arsenate • Sodium arsenate • Sodium arsenite • Monosodium methyl arsenate (MSMA) • Arsenic trioxide 	Insecticide, herbicide insecticide Insecticide, fungicide fungicide Fungicide Herbicide Herbicide, insecticide, rodenticide
19	Components with a cadmium base (salts and derivatives)	Cd-R	Such as: <ul style="list-style-type: none"> • Cadmium chrome • Cadmium sulphate 	Fungicide Fungicide
20	Components with a cyanide base (salts and derivatives)	CN-R	Such as: <ul style="list-style-type: none"> • Sodium cyanide 	Herbicidal fumigant
21	Components with a mercury base (salts and derivatives)	Hg-R	Such as: <ul style="list-style-type: none"> • Chloromethoxypropylmercuric acetate (CPMA) • Di(phenylmercury)dodeceny succinate (PMDS) • Mercurous chloride • Mercuric chlorine • Phenylmercuric acetate (PMA) • Phenylmercuric oleate (PMO) 	Fungicide Fungicide Fungicide Fungicide Fungicide

N°	Active ingredient or substance	Chemical group	Chemical name (IUPAC)	Use or effect
22	Components with a lead base (salts and derivatives)	Pb- R	Such as: <ul style="list-style-type: none"> Lead arsenate 	Fungicide, insecticide
23	Components with a thallium base (salts and derivatives)	TI-R	Such as: <ul style="list-style-type: none"> Thallium sulphate 	Rodenticide, insecticide
24	Crimidine	Aminopyrimidine	2-chloro-N,N-6-trimethyl pyrimidine-4-amine	Rodenticide
25	DBCP	Halogenated propane	1,2-dibromo-3-chloropropane	Fumigant nematocide
26	DDT	Diphenyl ethane	1,1,1-trichloro-2,2-bis (4-chlorophenyl) ethane	Insecticide
27	Demeton, isomers O and S	Phosphorated	Isomer O : O,O, di-ethyl O-2- ethyl phosphate; Isomer S : O, O, di-ethyl S-2-ethyl phosphate	Insecticide acaricide
28	Dialifos	Phosphorated	S-2-chloro-1-phthalimido ethyl 0,0-phosphorated diethyl	Insecticide, acaricide
29	Dieldrin	Chlorinated dimethylnaphthalene	(1R, 4S, 5S, 8R)-1,2,3,4,10,10-hexachloro-1,4,4a,5,6,7,8,8a-octahydro-6,7-epoxy-1,4:5,8-dimethylnaphthalene	Insecticide
30	Dinoseb (salts and derivatives)	Butyl dinitrophenol	Such as: <ul style="list-style-type: none"> 2-sec-butyl-4,6-dinitrophenol 2-sec-butyl-4,6-dinitrophenol 3-methyl crotonate (Binapacryl) 	Herbicide, desiccant
31	Carbon disulphide	Sulphur-R	Carbon disulphide	Fumigant, insecticide
32	Dodecachlore	Organochlorine	Dodecachloropentacycle [5.3.0.0. ^{2,6,0^{3,9}.0^{4,8}] decane}	Insecticide
33	EDB	Alkaline halogen	1,2-dibromo ethanol	Fungicide

N°	Active ingredient or substance	Chemical group	Chemical name (IUPAC)	Use or effect
34	Endrin	Chlorinated dimethylnaphthalene	(1R,4S,4aS, 5S, 6S,7R,8R,8aR) 1,2,3,4,10,10-hexachloro-1,4,4a, 5, 6, 7, 8, 8a-octahydro-5, 7-epoxy-1, 4: 5,8-dimethylnaphthalene	Insecticide
35	EPN	Phosphorated	O-ethyl O-4-nitrophenyl phenyl phosphorate	Insecticide
36	Strychnine (salts and derivatives)	Ketone strychnine	Derivatives of: strychnine-10	Insecticide-rodenticide
37	Phorate	phosphorated	O,O-diethyl S-ethylmethyl phosphorated	Insecticide acaricide
38	HCB	Chlorobenzene	Hexachlorobenzene	Insecticide
39	HCH Isomers alpha (α), beta (β) gamma (γ) and delta (δ)	Chlorocyclohexane	1,2,3,4,5,6-Hexachlorocyclohexane; isomers: α , β , γ and δ .	Insecticide
40	Heptachlorine	Indenochlorated	1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindine	Insecticide
41	Isodrin	Dymethylnaphthalene	(1R,4S,5R,8S)-1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-dimethylnaphthalene	Insecticide
42	Isobenzine	Cyclobenzofuran	1,3,4,5,6,7,8,8-octachloro-1,3,3a,4,7,7a-hexahydro-4,7-methanoisobenzofuran	Insecticide
43	Kadetrine	Oxotiolancyclo Propylfurylbenzil	[1R-[1 α ,3 α (E)]] [5-(phenylmethyl) 3-furanyl] methyl 3 [(dihydro-2-oxo-3 (2H)-(tenylidene) methyl]-2,2-dimethylcyclopropano carboxylate	Insecticide
44	Kelevan	Hydroxycyclodecane	Ethyl-5-(1,2,3,4,,6,7,8,9,10,10 decachloro-5-hydropentacycle [5,3.0.0 ^{2,6} .0 ^{3,9} .0 ^{4,6}]-5-decil-4- oxoalderate	Insecticide
45	Leptofs	phenylphosphorated	O-4-bromo-2,5-dichlorophenyl O-methylphenylphosphorated	Insecticide
46	Morphamquat	Morpholine-bipiridile	1,1 ¹ -bis(3,5-di-methylmorpholine carbonilmethyl)-4,4 ¹ -bipyridine	Herbicide

N°	Active ingredient or substance	Chemical group	Chemical name (IUPAC)	Use or effect
47	Nitrofen	Nitrophenolate	2,4-dichlorophenyl nitrophenolate	Herbicide
48	Ometoate	Carbamoyl phosphate	O,O-dimethyl S-methyl carbamoyl methyl phosphate	Insecticide acaricide
49	Ethyl oxide	Epoxyethane	Ethyl oxide	Fumigant sterilizing agent
50	Pentachlorophenol	Chlorinated Hydroxibenzene	Pentachlorophenol	Preservative fungicide herbicide defoliant
51	PEPP	Anhydride pyrophosphoric	Pyrophosphoric tetraethyl	Insecticide acaricide
52	Phosazetim	phosphoramidate	O,O-bis(4-chlorophenyl)N-acetamidoil phosphoramidated	Rodenticide
53	Protoate	Phosphorated carbamoyl	O,O-diethyl S-isopropylcarbamoyl methyl phosphate	Insecticide acaricide
54	Schradan	Pyrophosphoramide	Octamethyl pyrophosphoric tetra amide	Insecticide acaricide
55	Silvex (phenoprop)	Chlorophenoxy propionic	Acid (±) -2-(2,4,5-trichloro phenoxy)propionic	Herbicide
56	Strobane	Chlorinated terpene	A mixture of camphene, pinene and other related terpenes	insecticide
57	Nicotine sulphate	Pyrrolidinopyridine	Sulphate of (S)-3-(1-methyl-2-pyrrolidinil)pyridine	Insecticide
58	Sulphotep	Phosphothionic anhydride	0,0,0',0' –tetraethyl ditiopyrophosphate	Insecticide acaricide
59	Sulprophos	phenyl-phosphoridithioate	O-ethyl 0,4-(methyl) phenyl S-propyl phosphorate	Insecticide
60	Carbon tetrachloride	Methanochlorate	Carbon tetrachloride	Fumigant

N°	Active ingredient or substance	Chemical group	Chemical name (IUPAC)	Use or effect
61	Toxaphen (Campechlor)	Campechlorate	A mixture of chlorinate fuel containing 68% chlorine	Insecticide

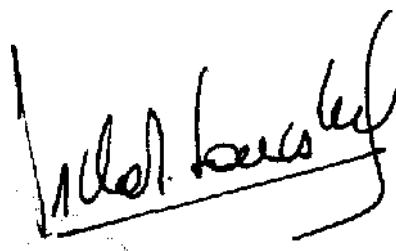
Third: The Technical Working Group on pesticides for use in agriculture will carry out periodic evaluations to ensure that this list is kept up to date and will work vigilantly to ensure compliance with the present resolution.

Fourth: The National Plant Health Directorate will take appropriate action against those who contravene the provisions of this document, in accordance with the stipulations of articles 47, 48 and 65 of Act No. 47 of 9 July 1996.

Fifth: The present resolution will enter into effect sixty days from its publication.

The present resolution shall be notified and duly enforced.

(Signatures)



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Manuel H. Miranda S.
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