UNITED NATIONS

PIC

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United Nations Environment Programme

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Interim Chemical Review Committee
Fifth session
Geneva, 2–6 February 2004
Item 5 (a) (iv) of the provisional agenda*
Inclusion of chemicals in the interim prior informed consent procedure:
Review of notifications of final regulatory actions to ban or severely restrict a chemical:
Mevinphos

Mevinphos

Note by the secretariat

1. In line with article 5 of the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade, when the secretariat has received at least one notification from each of two interim prior informed consent (PIC) regions that contain the information required in Annex I of the Convention, it shall forward the notifications and accompanying documentation to the members of the Interim Chemical Review Committee. The Committee shall review the information provided in such notifications and, in accordance with the criteria set out in Annex II, recommend to the Intergovernmental Negotiating Committee whether the chemical in question should be made subject to the interim PIC procedure and a decision guidance document drafted.

2. In decision INC-7/6, the Intergovernmental Negotiating Committee adopted a process for drafting decision guidance documents. The process is based on that developed by the Committee at its first session, held in Geneva in February 2000. An excerpt from the decision may be found in document UNEP/FAO/PIC/ICRC.5/INF/3.

3. The secretariat has identified two verified notifications from two interim PIC regions relating to endrin mevinphos (Near East – Jordan and Asia – Thailand). Summaries of these notifications are included in PIC circulars XIV, for December 2001, and XVIII, for December 2003.

4. The annex to the present note contains the two notifications as they were received from the notifying countries.

* UNEP/FAO/PIC/ICRC.5/1.

K0363823 181203

5. The relevant documentation, including a focused summary, provided by Jordan in conjunction with its notification is before the Committee in the addendum to the present note (UNEP/FAO/PIC/ICRC.5/11/Add.1).

Interim Secretariat for the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade

UNEP

FORM FOR NOTIFICATION OF FINAL REGULATORY ACTION TO BAN OR SEVERELY RESTRICT A CHEMICAL

IMPORTANT: See instructions before filling in the form

COUNTRY: JORDAN ok

PART I: PROPERTIES, IDENTIFICATION AND USES

1.	IDENTITY OF CHEMICAL	
1.1	**Common name**	**MEVINPHOS**
1.2	**Chemical name according to an internationally recognized nomenclature (e.g. IUPAC), where such nomenclature exists**	2-methoxycarbonyl-1-methylvinyl dimethyl phosphate; methyl 3-(dimethoxyphosphinoyloxy)but-2-enoate **Chemical Abstracts name** methyl 3-[(dimethoxyphosphinyl)oxy]-2-butenoate
1.3	**Trade names and names of preparations**	Phosdrin EC
1.4	**Code numbers**	
1.4.1	**CAS number**	**CAS RN** *[26718-65-0]* (formerly *[298-01-1]*) (*E*)- isomer; *[338-45-4]*
1.4.2	**Harmonized System customs code**	
1.4.3	**Other numbers (specify the numbering system)**	

1.5	**Indication regarding previous notification on this chemical, if any**
1.5.1	θ This is a first time notification of final regulatory action on this chemical (YES)
1.5.2	θ This is a modification of a previous notification of final regulatory action on this chemical. The sections modified are: _____ θ This notification replaces all previously submitted notifications on this chemical.
	Date of issue of the previous notification: _____

PLEASE RETURN THE COMPLETED FORM TO:

Interim Secretariat for the Rotterdam Convention
Plant Protection Service
Plant Production and Protection Division, FAO
Viale delle Terme di Caracalla
00100 Rome, Italy

Tel: (+39 06) 5705 3441
Fax: (+39 06) 5705 6347
E-mail: pic@fao.org

OR

Interim Secretariat for the Rotterdam Convention
UNEP Chemicals
11-
CH witzerland

Tel: (+41 22) 917 8183
Fax: (+41 22) 797 3460
E-mail: pic@unep.ch

1.6 Information on hazard classification where the chemical is subject to classification requirements	
International classification systems	**Hazard class**
WHO	Toxicity class WHO (a.i.) Ia
Other classification systems	**Hazard class**

1.7 Use or uses of the chemical	
1.7.1	θ **Pesticide** θ **YES**
	Describe the uses of the chemical as a pesticide in your country: INSECTICIDES
1.7.2	θ **Industrial**
	Describe the industrial uses of the chemical in your country:

1.8	Properties
1.8.1	**Description of physico-chemical properties of the chemical** **Composition** Tech. contains >60% *m/m* of the (*E*)- isomer and *c.* 20% *m/m* of the (*Z*)- isomer. **Mol. wt.** 224.1 **M.f.** $C_7H_{13}O_6P$ **Form** Colourless liquid; (tech., pale yellow liquid). **M.p.** (*E*)- isomer 21 ºC; (*Z*)- isomer 6.9 ºC **B.p.** 99-103 ºC/0.3 mmHg **V.p.** 17 mPa (20 ºC) K_{OW} logP = 0.127 **S.g./density** 1.24 (20 ºC); (*E*)- isomer 1.235; (*Z*)- isomer 1.245 **Solubility** Completely miscible with water and most organic solvents, e.g. alcohols, ketones, aromatic hydrocarbons, and chlorinated hydrocarbons. Slightly soluble in aliphatic hydrocarbons, petroleum ether, ligroin, and carbon disulfide. **Stability** Stable at ambient temperatures, but hydrolysed in aqueous alkaline solution, DT_{50} 120 d (pH 6), 35 d (pH 7), 3 d (pH 9), 1.4 h (pH 11).

1.8.2	**Description of toxicological properties of the chemical** Y Acute oral LD_{50} for rats 3-12, mice 7-18 mg/kg. **Skin and eye** Acute percutaneous LD_{50} for rats 4-90, rabbits 16-33 mg/kg. Mild irritant to skin and eyes (rabbits). **Inhalation** LC_{50} (1 h) for rats 0.125 mg/l air. **NOEL** In 2 y feeding trials, rats receiving 4 mg/kg diet and dogs receiving 5 mg/kg diet showed no ill-effects. **ADI** (JMPR) 0.0008 mg/kg b.w
1.8.3	**Description of ecotoxicological properties of the chemical** **Birds** Acute oral LD_{50} for mallard ducks 4.63, chickens 7.52, pheasants 1.37 mg/kg. **Fish** LC_{50} (48 h) for rainbow trout 0.017, bluegill sunfish 0.037 mg/l. **Bees** Toxic to bees; LD_{50} 0.027 µg/bee.

PART II: FINAL REGULATORY ACTION

2.	FINAL REGULATORY ACTION
2.1	**The chemical is:BANNED** θ **banned (OR** θ **severely restricted**
2.2	**Information specific to the final regulatory action**
2.2.1	**Summary of the final regulatory action** it is prohibited to place on the market or use plant protection products containing (MEVINPHOS)
2.2.2	**Reference to the regulatory document** NO.LAW 331 DATE 9/8/1994
2.2.3	**Date of entry into force of the final regulatory action** 1994

2.3	**Was the final regulatory action based on a risk or hazard evaluation?**	θ Yes
	If yes, give information on such evaluation	

	Reference to the relevant documentation	

2.4	**Reasons for the final regulatory action**	
2.4.1	**Is the reason for the final regulatory action relevant to the human health?**	θ **Yes**
	If yes, give summary of the known hazards and risks presented by the chemical to human health, including the health of consumers and workers	
	High toxicity on human	
	Reference to the relevant documentation	
	Expected effect of the final regulatory action	
	Decreas of chemical risk on human .lower residue in crops. Mor healthy food (consumers and workers)	

2.4.2	**Is the reason for the final regulatory action relevant to the environment?**	θ **No**
	If yes, give summary of the known hazards and risks to the environment	
	Reference to the relevant documentation	

	Expected effect of the final regulatory action

2.5	**Category or categories where the final regulatory action has been taken**	
2.5.1	**Final regulatory action has been taken for the chemical category**	θ **Industrial**
	Use or uses prohibited by the final regulatory action	
	Use or uses that remain allowed	

2.5.2	Final regulatory action has been taken for the chemical category	θ Pesticide
	Formulation(s) and use or uses prohibited by the final regulatory action ALL FORMULATION.	
	Formulation(s) and use or uses that remain allowed	

2.5.3 Estimated quantity of the chemical produced, imported, exported and used, where available.		
	Quantity per year (MT)	**Year**
Produced		
Imported	5940KG	1992
Exported		
Used	5940KG	1992

2.6	Indication, to the extent possible, of the likely relevance of the final regulatory action to other states and regions

2.7	Other relevant information that may cover:	
2.7.1	**Assessment of socio-economic effects of the final regulatory action**	

2.7.2	**Information on alternatives and their relative risks** CLORPYRIPHOS	
2.7.3	**Relevant additional information**	

PART III : GOVERNMENT AUTHORITIES

Ministry/Department and authority responsible for issuing/enforcing the final regulatory action	
Designated National Authority	
Institution	MINISTRY OF AGRICULTURE
Address	P.O.BOX :961044- -2099 AMMAN
Name of person in charge	MAHMOUD AL-KHTOOM
Position of person in charge	DIRECTOR OF PLANT PROTECTION DEPARTMENT
Telephone	5686151
Telefax	5686310
E-mail address	PRD@JOINNET.COM.JO.

Date, signature of DNA and official seal: _____

Date12/11/2003

To: The Interim Secretariat of Rotterdam Convention,
Food and Agriculture Organization of the United Nations,
AGPP, Rome, Italy
Attention: Murray William
Cc: Elisabetta Tagliati

Subject: Amendments to entries in the notification submitted by the Hashemite Kingdom of Jordan regarding endosulfan, vinclozolin, endrin, dimefox and mevinphos

Dear Sir,

Reference your fax dated 28/10/2003 regarding clarification of some entries in the notification forms submitted by Jordan; please amend the forms to read as indicated below:

1-Endosulfan:

- Section 2.2.2

Amend entries to read as session 271 of Agricultural Pesticide Committee, date 25/7/1991. Application for registration of endosulfan was also rejected by the committee in session 325 date 4/5/1994.

- Section 2.2.1

Amend entries to read as stop granting any new import license for formulations containing this active ingredient. Registered products will continue to be used until the expiry of their license (max. 4 years) after which registration will be cancelled.

- Section 2.2.3

Amend date of entry into force to read as 1991

- Section 2.5.2

Amend uses remain allowed to read as no uses remain allowed.

2-Vinclozolin:

- Section 2.2.2

Waiting for translation into English

- Section 2.4 (reference to relevant documents)

Amend entry to read as information submitted by manufacturer (BASF)

- Section 2.5.2

Amend uses remain allowed to read as no uses remain allowed.

3-Endrin

- Section 2.2.2;

Amend entry to read as session 68 of the Agricultural Pesticide Committee, date 29/10/1980

- Section 2.2.3

Amend date of entry into force to read as 1/1/1981.

- Section 2.5.2

Amend uses remain allowed to read as no uses remain allowed.

4-Dimefox:

- Section 1.6

Please refer to WHO Hazard Classification, table 6, Active Ingredients believed to be obsolete,

- Section 1.8.1

Please refer to Organophosphorus pesticides (group monograph 1989) by INCHEM,

- Section 2.2.2

Amend entry to read as session 68 of the Agricultural Pesticide Committee, date 29/10/1980

- Section 2.2.3

Amend date of entry into force to read as 1/1/1981

- Section 2.5.2

Amend uses remain allowed to read as no uses remain allowed.

5- Mevinphos:

- Section 2.2.2

Amend entry to read as session 331 of the Agricultural Pesticide Committee, date 9/8/1994

- Section 2.5.2

Amend uses remain allowed to read as no uses remain allowed.

Please find attached all relevant documentation translated into English.

Regards

Mahmoud Al-Khtoom
Director of Plant Protection Department
(DNA for Pesticides)

مدير وقاية النبات
المهندس محمود الختوم

Interim Secretariat for the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade

UNEP

FORM FOR NOTIFICATION OF FINAL REGULATORY ACTION TO BAN OR SEVERELY RESTRICT A CHEMICAL

IMPORTANT: See instructions before filling in the form

COUNTRY: Thailand

PART I : PROPERTIES, IDENTIFICATION AND USES

1.	**IDENTITY OF CHEMICAL**	
1.1	**Common name**	mevinphos
1.2	**Chemical name according to an internationally recognized nomenclature (e.g. IUPAC), where such nomenclature exists**	2-methoxycarbonyl-1-methylvinyl dimethyl phosphate.
1.3	**Trade names and names of Preparations**	Phosdrin, Duraphos, Mevidrin.
1.4	**Code numbers**	
1.4.1	**CAS number**	CAS RN [26718-65-0]
1.4.2	**Harmonized System customs code**	
1.4.3	**Other numbers (specify the numbering system)**	EEC no. 232 - 095 - 1

1.5	**Indication regarding previous notification on this chemical, if any**
1.5.1	☑ This is a first time notification of final regulatory action on this chemical
1.5.2	☐ This is a modification of a previous notification of final regulatory action on this chemical. The sections modified are: _____ ☐ This notification replaces all previously submitted notifications on this chemical.
	Date of issue of the previous notification: _____

PLEASE RETURN THE COMPLETED FORM TO:

Interim Secretariat for the Rotterdam Convention
Plant Protection Service
Plant Production and Protection Division, FAO
Viale delle Terme di Caracalla
00100 Rome, Italy

Tel: (+39 06) 5705 3441
Fax: (+39 06) 5705 6347
E-mail: pic@fao.org

OR

Interim Secretariat for the Rotterdam Convention
UNEP Chemicals

11 - 13, Chemin des Anémones
CH - 1219 Châtelaine, Geneva, Switzerland

Tel: (+4122) 917 8183
Fax: (+4122) 797 3460
E-mail: pic@unep.ch

1.6	Information on hazard classification where the chemical is subject to classification requirements
International classification systems	**Hazard class**
WHO (Technical Product)	Ia
Other classification systems	**Hazard class**
EPA (Formulation)	I
	T+ (R 27/28)

1.7	Use or uses of the chemical
1.7.1	☑ **Pesticide**
	Describe the uses of the chemical as a pesticide in your country:
	Insecticide and acaricide. In Thailand, used for control of thrips and aphids in maize, cotton, flowers and ornamental plants and vegetables of the genera *Brassica*. Apply mevinhos 24% W/V EC 10-20 ml/20 litres of water by spraying.
1.7.2	☐ **Industrial**
	Describe the industrial uses of the chemical in your country:

1.8	Properties
1.8.1	**Description of physico-chemical properties of the chemical**
	Tech. contains > 60% of (E) – isomer and ~ 20 % of (Z)-isomer. Molecular weight : 224.1. Molecular formula: $C_7H_{13}O_6P$. Form: Colourless liquid. (tech. Pale yellow liquid). Melting poitnt (E) – isomer : 21°C, (Z)-isomer : 6.9°C. Boiling point : 99 - 103°C/0.3 mm.Hg. Vapour pressure: 17 mPa (20°C) K_{ow}log P= 0.127. Specific gravity/density : 1.24 (20°C), (E)-isomer = 1.235, (Z)-isomer = 1.245 Solubility: Completely miscible with water and most oragnic solvents. Stability: Stable at ambient temperature but hydrolysed in aqueous alkaline solution, DT_{50} : 17 days (pH 6), 35 days (pH 7), 3 days (pH 9), 1.4 hours (pH 11).

1.8.2	**Description of toxicological properties of the chemical**
	Acute oral LD_{50} for rats 3-12, mice 7-18 mg/kg. Skin and eye: acute percutaneous LD_{50} for rats 4 -90, rabbits 16-33 mg/kg. Mild irritant to skin and eyes (rabbits). Inhalation: LC_{50} (1 h) for rats 0.125 mg/l air. NOEL: In 2 year feeding trials, rats receiving 4 mg/kg diet and dogs receiving 5 mg/kg diet showed no ill-effect. ADI (JMPR) 0.0015 mg/kg b.w. [1972].
1.8.3	**Description of ecotoxicological properties of the chemical**
	Birds: acut oral LD_{50} for mallard ducks 4.63, chickens 7.52, pheasants 1.37 mg/kg. Fish LD_{50} (48h) for rainbow trout 0.017, bluegill sunfish 0.037 mg/l. Toxic to bees, LD_{50} 0.027 µg/bee.

PART II: FINAL REGULATORY ACTION

2.	**FINAL REGULATORY ACTION**	
2.1	**The chemical is:** ☑ **banned**	**OR** ☐ **severely restricted**
2.2	**Information specific to the final regulatory action**	
2.2.1	**Summary of the final regulatory action**	
	Banned for import, production, having in possession and use as agricultural pesticide.	
2.2.2	**Reference to the regulatory document**	
	Notification of Ministry of Industry dated 20 March 2000, published in the Royal Gazette volume no. 117, section 43 Ng, date 8 May 2000.	
2.2.3	**Date of entry into force of the final regulatory action**	
	9 May 2000.	

2.3	**Was the final regulatory action based on a risk or hazard evaluation?**	☑ Yes	☐ No
	If yes, give information on such evaluation		
	The acute oral LD_{50} = 3-12 mg/kg is very high risk to humans.		
	Reference to the relevant documentation		
	The Pesticide Manual, 11th edition, entry 0499.		

2.4	**Reasons for the final- regulatory action**		
2.4.1	**Is the reason for the final regulatory action relevant to the human health?**	☑ Yes	☐ No
	If yes, give summary of the known hazards and risks presented by the chemical to human health, including the health of consumers and workers		
	Very high acute toxicity, extremely hazardous and risk to workers during formulating, packaging, transporting and spraying.		
	Reference to the relevant documentation		
	The Pesticide Manual, 11th edition, entry 0499.		
	Expected effect of the final regulatory action		
	No poisoning case caused by mevinphos is reported.		

2.4.2	Is the reason for the final regulatory action relevant to the environment?	☐ Yes ☑ No
	If yes, give summary of the known hazards and risks to the environment	
	–	
	Reference to the relevant documentation	
	–	
	Expected effect of the final regulatory action	
	–	

2.5	Category or categories where the final regulatory action has been taken	
2.5.1	Final regulatory action has been taken for the chemical category	☐ Industrial
	Use or uses prohibited by the final regulatory action	
	–	
	Use or uses that remain allowed	
	–	

2.5.2	**Final regulatory action has been taken for the chemical category**	☑ **Pesticide**
	Formulation(s) and use or uses prohibited by the final regulatory action	
	All formulations and uses were prohibited by the final regulatory action.	
	Formulation(s) and use or uses that remain allowed	
	None.	

2.5.3	**Estimated quantity of the chemical produced, imported, exported and used, where available.**	
	Quantity per year (MT)	**Year**
Produced		
Imported	65.62 (a.i.)	1999 (last year of import)
Exported		
Used		

2.6	**Indication, to the extent possible, of the likely relevance of the final regulatory action to other states and regions**

2.7	**Other relevant information that may cover:**
2.7.1	**Assessment of socio-economic effects of the final regulatory action**

2.7.2	**Information on alternatives and their relative risks**	Alternatives: imidacloprid (LD_{50} : 450 mg/kg), prothiofos (LD_{50} : 925 mg/kg), profenofos (LD_{50} : 258 mg / kg), carbosulfan (LD_{50} : 250 mg/kg), carbaryl (LD_{50} : 300 mg/kg).
2.7.3	**Relevant additional information**	–

PART III : GOVERNMENT AUTHORITIES

Ministry/Department and authority responsible for issuing/enforcing the final regulatory action	
Institution	Department of Agriculture
Address	50 Phaholyothin Rd., Chatuchak, Bangkok 10900 Thailand
Telephone	66 - 2 - 5790586
Telefax	66 - 2 - 5615024
E-mail address	anantad@doa.go.th
Designated National Authority	
Institution	Department of Agriculture
Address	50 Phaholyothin Rd., Chatuchak, Bangkok 10900 Thailand
Name of person in charge	Dr. Ananta Dalodom
Position of person in charge	Director - General
Telephone	66 - 2 - 5790586
Telefax	66 - 2 - 5615024
E-mail address	anantad@doa.go.th

Date, signature of DNA and official seal: