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# Food and Agriculture Organization of the United Nations

#### INTERIM CHEMICAL REVIEW COMMITTEE

Third session Geneva, 18 - 22 February 2002 Item 6 (a) 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 -

### Dinoterb

### Note from the Secretariat

- 1. In line with Article 5 of the Rotterdam Convention, when the Secretariat has received at least one notification from each of two 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. The Intergovernmental Negotiating Committee, in decision INC.7/6, adopted a process for drafting decision guidance documents. The process is based on that developed by the Interim Chemical Review Committee at its first session in Geneva in February 2000. An excerpt of the decision is contained in document UNEP/FAO/PIC/ICRC.3/INF.3
- 3. The Secretariat has identified two verified notifications from two PIC regions relating to dinoterb (Asia Thailand and Europe European Community). Summaries of these notifications were included in PIC Circular XIV (12 December 2001).
- 4. Attached to this note are the notifications circulated to the members of the Interim Chemical Review Committee in a letter dated 22 November 2001.
- 5. The relevant documentation provided by Thailand and the European Commission in support of their respective notifications was circulated to members of the Interim Chemical Review Committee with a letter dated 30 November 2001 and is available as an addendum to this note (UNEP/FAO/PIC/ICRC.3/15/Add1).

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<sup>•</sup> UNEP/FAO/PIC/ICRC3/1

# Status regarding the submission of the supporting documentation on Dinoterb (As of 22 November 2001)

Notifying Country name	Interim PIC Regions	Supporting Documentation Submitted
European Community	Europe	Yes
Thailand	Asia	Yes



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



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

IMPORTANT: See instructions before filling in the form

**COUNTRY:** European Community

(MEMBER STATES: AUSTRIA, BELGIUM, DENMARK, FINALAND, FRANCE, GERMANY, GREECE, IRELAND, ITALY, LUXEMBOURG, THE NETHERLANDS, PORTUGAL, SPAIN, SWEDEN AND UNITED KINGDOM).

# PART I: PROPERTIES, IDENTIFICATION AND USES

1.	IDENTITY OF CHEMICAL		
1.1	Common name	Dinoterb	
1.2	Chemical name according to an internationally recognized nomenclature (e.g. IUPAC), where such nomenclature exists	2-tert-butyl-4,6-dinitrophenol(IUPAC) 2-(1,1-dimethylethyl)-4,6-dinitrophenol (CAS)	
1.3	Trade names and names of preparations	Herbogil liquid, Tolkan V, Tolkan S	
1.4	Code numbers		
1.4.1	CAS number	1420-07-1	
1.4.2	Harmonized System customs code	2908.90 – (ISO) 3808.30 – (DNTBP), put as insecticide and herbicide. 3808.30 – put as herbicide 3808.30 –acetate, put as a acaricide and herbicide.	
1.4.3	Other numbers (specify the numbering system)	EEC: 609-030-004 CIPAC: 238 einecs: 215-813-8	
1.5	Indication regarding previous noti	fication on this chemical, if any	
1.5.1	.5.1 $\overline{\checkmark}$ This is a first time notification of final regulatory action on this chemical.		

### PLEASE RETURN THE COMPLETED FORM TO:

OR

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

Interim Secretariat for the Rotterdam Convention UNEP Chemicals

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

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

(UNEP/FA	O/PIC/FORM/1/E/4-99) Form - Notification of final re	egulatory action to ban or severely restrict a chemical – page 2			
1.5.2					
	The sections modified are:				
	This notification replaces all previously submitted notifications on this chemical.				
	Date of issue of the previous notification:				
1.6Inf	formation on hazard classification where the cl	hemical is subject to classification requirements			
	International classification systems	Hazard class			
Clas	ssification in the EU in accordance with Directive	T+ (very toxic).			
	67/548/EEC (Annex I) R28 (very toxic if swallowed).				
	T (toxic)				
	R24 (toxic in contact with skin)				
	T (toxic, reproduction cat.2).				
	R61 (may cause harm to the unborn child).				
	N (dangerous for the environment)				
R50-53 (very toxic to aquatic organisms, may cause					
long-term adverse effects in the aquatic					
environment).					
Other classification systems Hazard class					
1.7	Use or uses of the	chemical			
1.7.1	<b></b> ✓ Pesticide				
	Describe the uses of the chemical as a pestic	ide in your country:			
	Used as post emergence herbicide on maize, beans	s, peas, potatoes and sweet corn.			
1.7.2	☐ Industrial				
	Describe the industrial uses of the chemical	in your country:			
	Not used				

Properties

1.8.1 Description of physico-chemical properties of the chemical

1.8

Form - Notification of final regulatory action to ban or severely restrict a chemical – page 3
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(UNEP/FAO/PIC/FORM/1/E/4-99)	$Form\ \hbox{-}\ Notification\ of\ final\ regulatory\ action\ to\ ban\ or\ severely\ restrict\ a\ chemical\ -\ page\ 3$		
Identity	Yellow crystals (Purity > 99%)		
Formula	$C_{10}H_{12}N_2O_5$		
Chemical type	dinitrophenol		
Molecular weight Melting point Boiling point Boiling point Relative density Vapor pressure Henry's law constant Solubility in water  Melting point 127.2°C decomposition above 222°C 0.705 0.97 x 10 <sup>-3</sup> Pa at 20°C Henry's law constant 10 x 10 <sup>-4</sup> Pa x m³/mol at pH7 2.95 mg/1 at pH 4 230 mg/1 at pH 7 550 mg/1 at pH 9			
		Solubility in organic so	lvents at 25°C: n-heptane : 9 g/kg
			isopropanol: 9 g/kg
			xylene: 200 g/kg
			acetone: 190 g/kg
			ethyl acetate: 130 g/kg
		Partition coefficient (lo	
			1.91 at pH7
			1.57 at pH10
	(50) stable at pH 5 and 9 at 22°C		
Photostability (DT <sub>50</sub> ) 1	· · · · · · · · · · · · · · · · · · ·		
Dissociation constant p			
Full Report on dinoter	b (ECCO-Team, 1348/ECCO/BBA/97 of 14 April 1997).		

# 1.8.2 Description of toxicological properties of the chemical Main properties and lack of information considered: - Developmental toxicity: rat, oral: NOEL embryo-foetotoxicity: 2mg/kg bw/d (maternal NOEL; 2 mg/kg bw/d), rat, oral: NOEL embryo-foetotoxicity: 2.5 mg/kg bw/d (maternal NOEL: 2.5 mg/kg bw/d), rabbit, oral: NOEL embryo-foetotoxicity: 1.25 mg/kg bw/d (maternal NOEL: 1.5 mg/kg bw/d), rat, dermal: NOEL embryo-foetotoxicity: 5 mg/kg bw/d (maternal NOEL: 5 mg/kg bw/d)

-No AOEL available

-No ADI available

Full Report on dinoterb (ECCO-Team, 1348/ECCO/BBA/97 of 14 April 1997).

rat, oral: NOEL embryotoxicity: 3 mg/kg bw/d (maternal NOEL; 3 mg/kg bw/d).

## 1.8.3 Description of ecotoxicological properties of the chemical

Properties and lack of information:

a) Fate and behaviour:

Soil: Degradation not sufficiently documented,

Mobility: no acceptable data for field studies,

Dinoterb is slowly degraded in water sediment (50% in 94 days),

### b) Ecotoxity

Serious risks to birds and mammals,

High toxicity for fish and daphnia was concluded,

No information was presented for bees and other arthopods.

The preliminary data provided indicated a risk to earthworms,

From the data available, it was concluded dinoterb is toxic to soil micro organisms.

Full Report on dinoterb (ECCO-Team, 1348/ECCO/BBA/97 of 14 April 1997).

## PART II: FINAL REGULATORY ACTION

2.	<u>F</u>	FINAL REGULATORY	ACTION	
2.1	The chemical is:	<b>✓</b> banned	OR	$\square$ severely restricted
2.2	Information specific to	the final regulatory actio	n	
2.2.1	Summary of the final re	egulatory action		
	It is prohibited to place on	the market or use plant prote	ection products cont	aining dinoterb. Dinoterb is
	not included as an active in	ngredient in Annex 1 to Direct	ctive 91/414/EEC.	The authorisations for plant
	protection products containing dinoterb were withdrawn within a period of 6 months from the			
	Commission Decision 98/269/EC. From the date of decision, no authorisations for plant protection			tions for plant protection
	products containing dinote	rb will be granted or renewe	d.	
2.2.2	Reference to the regula	atory document		
	Commission Decision 98/2	269/EC of 7 April 1998 conce	erning the non-inclu	sion of dinoterb in Annex 1
	to Council Directive 91/41	4/EEC and the withdrawal of	of authorisations for	plant protection products
	containing this active subs	tance (Official Journal of the	European Commur	nities L117 of 21/04/1998, p.
	13) (copy attached).		_	_
2.2.3	Date of entry into force	of the final regulatory ac	ction	
	6/10/1998 (Authorisations	for plant protection products	s containing dinoterl	were withdrawn within a
	period of 6 months from the	ne date of the final regulator	y action)	

2.3	Was the final regulatory action based on a risk or hazard evaluation?	<b>✓</b> Yes	□ No
	If yes, give information on such evaluation		
	It was concluded that dinoterb could not fulfil the safety requirements laid down in A	rticle 5 (I) (a	a) and
	(b) of Directive 91/414/EEC.		
	the principal issues which laid to these overall conclusions relate mainly to concerns about human		
	health protection under the proposed conditions of use. Additionally, important data gaps made it impossible to further investigate environmental safety.		
	Concerns:		
	a) Human health protection:		
	The data available indicate a high risk or danger to health. The main problem areas an	e:	
	- Teratogenicity: dinoterb is classified as a substance which should be regarded as if i	t impairs fer	tility
	in humans (Toxic; R61: may cause harm to the unborn child).		
	- The risk for the operator and the consumers cannot be assessed as no AOEL and no	ADI are	
	available.		
	b) Environment: The data available indicate a high risk or danger to terrestrial and aquatic organisms.	The main	
	problem areas are the toxicity to birds, earthworms, soil micro-organisms, fish and D		
	Reference to the relevant documentation	арина.	
	Actor of the Total will documentation		
	Review report 8083/VI/97-rev 4 of 16 December 1997, copy attached, and supporting	g backgrour	nd
	documents (dossier, monograph, and the peer review report under the Peer Review Pr	rogramme (l	ECCO
	April 1997).		
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	ام مسمسمدمس	
	Based on available data, none of the intended uses are considered acceptable as regard exposure to the active substance and consumers exposure to potential residues resulti		
	Reference to the relevant documentation	ng nom usc	··
	Review report 8083/VI/97-rev 4 of 16 December 1997, copy attached, and supporting	g backgrou	nd
	documents (dossier, monograph, and the peer review report under the Peer Review Pr		
	(ECCO, April 1997)		
	Expected effect of the final regulatory action		
2.4.2	Complete risk reduction for plant protection use.	7.77	
2.4.2		<b>∠</b> Yes	✓ No
	If yes, give summary of the known hazards and risks to the environment  High risk or danger for terrestrial and aquatic organisms.		
	Reference to the relevant documentation		
	Acterence to the relevant documentation		
	Review Report 8083/VI/97-rev 4 of December 1997, copy attached, and supporting b	ackground	
	documents (dossier, monograph, and the peer review report under the Peer Review Programme Programme).		
	(ECCO, April 1997)		
	Expected effect of the final regulatory action		
	Complete risk reduction for plant protection use		
2.5	Category or categories where the final regulatory action has been take	n	
2.5.1	Final regulatory action has been taken for the chemical category	☐ Indu	strial
	Use or uses prohibited by the final regulatory action		
	Not relevant.		
	Use or uses that remain allowed		
	Not relevant.		

(UNEP/FAO/PIC/FORM/1/E/4-99) Form - Notification of final regulatory action to ban or severely rest		trict a chemical – page 6
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 applications as plant protection products are prohibited.	
	Formulation(s) and use or uses that remain allowed	
	EU Member States may have granted a period of grace for disposal, storage, placing on the market and	
	use of existing stocks, no longer than 18 months from the date of notification of Commission Decision	
	Commission Decision 98/269/EC of 7 April 1998.	

2.5.3Estimated quantity of the chemical produced, imported, exported and used, where available.				
		Quantity per year (MT)	Year	
Produ	33 3 344			
Impo	ported Not Available			
Expor	ted	Not Available		
Used		Not Available		
2.6	Indication, states and	to the extent possible, of the likely relevance of the final regular regions	itory action to other	
	-	ction in states where the substance is used as a plant protection product, pecially in developing countries. A ban would also protect the general p	•	
2.7		Other relevant information that may cover:		
2.7.1	Assessmen	t of socio-economic effects of the final regulatory action		
2.7.2	Informatio	n on alternatives and their relative risks		
2.7.3	Relevant ac	lditional information		

# PART III: GOVERNMENT AUTHORITIES

Ministry/Department and authority responsible for issuing/enforcing the final regulatory action		
Institution	European Commission	
Address	Rue de la Loi 200	
	B-1049 Brussels	
	Belgium	
Telephone	+32.2.2994860	
Telefax	+32.2.2956117	
E-mail address	klaus.berend@cec.eu.int	
	Designated National Authority	
Institution	DG Environment	
	European Commission	
Address	Rue de la Loi 200	
	B-1049 Brussels	
	Belgium	
Name of person in charge	Klaus BEREND	
Position of person in charge	Administrator	
Telephone	+32.2.2994860	
Telefax	+32.2.2956117	
E-mail address	klaus.berend@cec.eu.int	

Date, signature of DNA and official seal:	
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Date, signature of Divia and official scal.	



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

IMPORTANT: See instructions before filling in the form

<b>COUNTRY:</b>	THAIL	AND
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**IDENTITY OF CHEMICAL** 

## PART I: PROPERTIES, IDENTIFICATION AND USES

1.1	Common name	Dinoterb
1.2	Chemical name according to an internationally recognized nomenclature (e.g. IUPAC), where such nomenclature exists	2-tert-butyl-4,6-dinitrophenol
1.3	Trade names and names of preparations	Herbogil
1.4	Code numbers	
1.4.1	CAS number	CAS RN [1420-07-1]
1.4.2	Harmonized System customs code	
1.4.3	Other numbers (specify the numbering system)	EEC. No. 215-813-8
1.5	Indication regarding previous noti	fication on this chemical, if any
1.5.1	$\overline{\checkmark}$ This is a first time notification of final regulatory action on this chemic al.	
1.5.2	☐ This is a modification of a previous notification of final regulatory action on this chemical.	
	The sections modified are:	

### PLEASE RETURN THE COMPLETED FORM TO:

OR

This notification replaces all previously submitted notifications on this chemical.

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

Date of issue of the previous notification: \_

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

**Interim Secretariat for the Rotterdam Convention** 

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

00100 Rome, Italy

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

**UNEP Chemicals** 

1.6	Information on hazard classification where the chemical is subject to classification requirements		
	International classification systems Hazard class		
	WHO (Technical products) Ia		
	Other elegification systems	Hazard class	
	Other classification systems  EC Risk (R 61)	T	
	Le Risk (R 01)		
_			
1.7	Use or uses of the o	chemical	
1.7.1	<b> V</b> Pesticide		
	Describe the uses of the chemical as a pestici	de in your country:	
	Herbicide. This pesticide has never been imported for	or use in Thailand	
1.7.2	☐ Industrial		
	Describe the industrial uses of the chemical in your country:		
	, and the second		
1.8	Properties		
1.8.1	Description of physico-chemical properties of		
1.0.1	Description of physico-enclinear properties of	the chemicar	
	Molecular weight:240.2. Molecular formula: CoHi	•	
	odour. Melting point 125.5-126.5 C Vapour pressur 5,20 C). Soluble in alcohols, glycols, aliphatic hydro		
	point. Decompose above 220 C. Stable at least 34 d		

1.8.2	Description of toxicological properties of the chemical	
	Acute oral LD <sub>60</sub> for rats 62, mice 25, rabbits 28mg/kg. Skin and eyes: acute percutance LD <sub>60</sub> for guinea pigs 150 mg/kg. NOEL(2y) for rats 0.375 mg/kg diet	eous
1.8.3	Description of ecotoxicological properties of the chemical	
	Fish LDs0 (96h) for rainbow trout 0.0034 mg/l. Toxic to bees.	

# PART II: FINAL REGULATORY ACTION

2.	FI	NAL REGULATORY A	ACTION	
2.1	The chemical is:	✓ banned	OR	severely restricted
2.2	Information specific to the	he final regulatory actio	n	
2.2.1	Summary of the final reg	gulatory action		
	Banned for import, producti	on, having in possession, a	nd use as an agricultu	ıral pesticide.
2.2.2	Reference to the regulat	tory document		
	Notification of Ministry of I 117, section 61 Ng, dated 2		O, published in the Ro	yal Gazette volume no.
2.2.3	Date of entry into force of	of the final regulatory ac	etion	
		24 June	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 <sub>50</sub> 25mg/kg is very high risk to human.		
	Reference to the relevant documentation		
	The WHO Recommended Classification of Pesticide by Hazard and Guideline to Class 1997.	sification, 1	996-
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		
	Extremely hazardous to workers during formulating and application by spraying because of very high acute toxicity.		
	Reference to the relevant documentation		
	The WHO Recommended Classification of Pesticide by Hazard and Guidelines to Cla 1996-1997	ssification,	
	Expected effect of the final regulatory action		
	No poisoning case caused by dinoterb is reported.		

2.4.2	Is the reason for the final regulatory action relevant to the environment?	☐ Ye	es 🗸	/ 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 tak	en		
2.5.1	Final regulatory action has been taken for the chemical category		Industr	ial
	Use or uses prohibited by the final regulatory action			
	ese of uses promoted by the imal regulatory action			
	Time and a second			
	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		on
	All formulations and uses were prohibited by the final regulatory action.		
	Formulatio	n(s) and use or uses that remain allowed	
	None		
2.5.3F	Stimated au	antity of the chemical produced, imported, exported and us	sed, where available.
2.5.51	simaca qu	Quantity per year (MT)	Year
Produ	ıced		-
Imported		_	-
Exported		-	-
Used -		-	
2.6	Indication, states and	to the extent possible, of the likely relevance of the final re regions	egulatory action to other
2.7		Other relevant information that may cover:	
2.7.1	Assessmen	t of socio-economic effects of the final regulatory action	

Information on alternatives and their relative risks	
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: