codex alimentarius commission

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

WORLD HEALTH ORGANIZATION

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Agenda Item 8 **CX/PR 03/12**

JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON PESTICIDE RESIDUES

Thirty-fifth Session

Rotterdam, The Netherlands, 31 March-5 April 2003

ESTABLISHMENT OF CODEX PRIORITY LISTS OF PESTICIDES

(Prepared by Australia)

1. EVALUATION OF NEW COMPOUNDS

Two new compounds have been foreshadowed for review.

The United States has proposed the new acaricide, bifenazate. Data will be provided to establish CXLs for the following commodities: cotton seed, grapes, hops, peach, plum, pome fruit and strawberries. Data will be available for submission to JMPR for both toxicological and residues review in 2004. The proposer has provided data tosupport the claim for a reduced risk chemical.

In summary, bifenazate has very low mammalian acute toxicity, minimal chronic effects and no adverse reproductive or developmental effects. Bifenazate poses minimal risk to applicators, handlers and the general population including children. Estimated dietary exposure from consumption of crops treated with bifenazate predicts low risk to all segments of the population. There are no drinking water concerns. The extremely short half-life in soil and water and the low potential for leaching indicate a minimal risk to the environment. The proposed uses are limited to only one application per harvested crop per season, thus reducing environmental exposure.

Chile has proposed the new fungicide, pyrimethanil. Data will be provided to establish CXLs for the following commodities: banana, beans, carrots, citrus, cucumbers, gingseng, grapes, kiwi fruit, lettuce, onions, peppers, pome fruit, stone fruit, strawberries and tomatoes.

The manufacturer informs that pyrimethanil technical has a very low acute and subchronic toxicity, it is not an irritant, is not a skin sensitizer and exhibits no neurotoxic, developmental, reproductive or mutagenic effects. Pyrimethanil is a non-genotoxic compound, is not a teratogen, has no significant reproductive toxicity and is not tumorogenic in either the rat or mouse. Data will be available for submission to JMPR/WHO in 2004 and JMPR/FAO in 2005.

2. JMPR REVIEW SCHEDULE

Appendix 1 contains the tentative schedule for the 2003 JMPR and tentative schedules for 2004 through 2012. Listed below are changes made to the tentative schedules taking into consideration the prioritisation criteria agreed at CCPR 34 ALINORM 02/24 Appendix VII and the limited resources of JMPR.

3. CHANGES TO THE 2003 TENTATIVE SCHEDULE

The toxicological periodic re-evaluations of cyhexatin (067) and azocyclotin (129) for have been postponed to 2004.

Mycobutanil (181) has been withdrawn for residues evaluation in 2003. Carbosulfan (145) has been added to the 2003 tentative schedule for residues evaluation.

4. CHANGES TO THE 2004 TENTATIVE SCHEDULE

Captan (007), folpet (041) and phosmet (103) have been added to the 2004 tentative schedule for the review of acute toxicity following recommendations from JMPR and a manufacturer.

The residues evaluations for cypermethrin, alphacypermethrin and zeta cypermethrin have been postponed to 2005 to follow the toxicology evaluation by JECFA in February 2005.

5. CHANGES TO THE 2005 TENTATIVE SCHEDULE

Bentazone (172), dimethipin (151), fenpropimorph (188) and imazilil (110) have been added to the 2005 tentative schedule for review of acute toxicity following recommendations from JMPR.

6. CHANGES TO THE 2006 TENTATIVE SCHEDULE

The 2 new compounds, bifenazate and pyrimethanil have been tentatively scheduled for 2006.

7. CHANGES TO THE 2009 TENTATIVE SCHEDULE

Support has been received from the manufacturers for the toxicological periodic re-evaluation of:

bifenthrin (178),chlorothalanil (081), cadusafos (174) and cycloxydim (179) in 2009.

8. CHANGES TO THE 2010 TENTATIVE SCHEDULE

Support has been received from the manufacturers for the toxicological periodic re-evaluation of dithianon (028) and fenbutatin oxide (109) in 2010.

9. THE 2011 TENTATIVE SCHEDULE

Support has been received from the manufacturers for the residues periodic re-evaluation of amitraz (122)

bifenthrin (178),chlorothalanil (081) and cadusafos (174) in 2011

10. THE 2012 TENTATIVE SCHEDULE

Support has been received from the manufacturers for the residues periodic re-evaluation of:

cycloxydim (179), dithianon (028) and fenbutatin oxide (109) in 2012.

11. CHEMICALS RECOMMENDED FOR DELETION

Manufacturers have advised that penconazole (182) and ethion (034) will no longer be supported.

12. CANDIDATE CHEMICALS FOR PERIODIC RE-EVALUATION – NOT YET SCHEDULED-

After taking into account the chemicals tentatively scheduled for Periodic Re-evaluation until the year 2012 and new chemicals added this year, there are **7 chemicals** that meet the selection criterion of having last been reviewed toxicologically more than 10 years ago and/or not having had a significant review of maximum residue limits for 10 years (see Annex I).

The next step is for the manufacturers to confirm by **1 November 2003** the availability of data to support a periodic re-evaluation of these compounds and therefore permit scheduling of the reviews.

13. CHEMICALS PROPOSED FOR PRIORITY LISTING BUT FOR WHICH FURTHER CONSIDERATION IS REQUIRED BEFORE A DECISION CAN BE MADE

DDT (EMRLs), gentamicin, oxytetracycline and MRLs for various pesticides on spices based on monitoring data. (See Annex II).

14. FUTURE EVALUATIONS AND RE-EVALUATIONS BY JMPR

To encourage member country participation in the process of nominating candidate chemicals for review, it is recommended that the agendas of the JMPR as finalized by the Joint Secretaries of the JMPR be placed on the FAO Home Page as requested by the CCPR at its 30th Session (ALINORM 99/24, para. 103):

http://www.fao.org/waicent/FaoInfo/Agricult/AGP/AGPP/Pesticid

http:/www.who.int/pcs/jmpr/jmpr.htm

APPENDIX 1

PRIORITY LIST OF CHEMICALS SCHEDULED FOR EVALUATION AND RE-EVALUATION BY JMPR

The following are the tentative schedules to be evaluated by the FAO/WHO Joint Meeting on Pesticides Residues (JMPR) from 2003 to 2012

2003 JMPR

Toxicological evaluations	**Residue evaluations**
New compounds	***New compounds***
cyprodinil	cyprodinil
famoxadone	famoxadone
methoxyfenozide	methoxyfenozide
pyraclostrobin	pyraclostrobin
Periodic re-evaluations	***Periodic re-evaluations***
carbosulfan (145)	acephate (095)/methamidophos (100)
paraquat (057)	fenitrothion (037)
terbufos (167)	lindane (048)
	pirimiphos-methyl (086)
Evaluations	***Evaluations***
	carbendazim (072)/thiophanate-methyl (077)
dimethoate (027) - acute toxicity	carbosulfan (145)
malathion (049) - acute toxicity	dimethoate (027)
pyrethrins (063)	dicloran (083)
	dodine (084)
	pyrethrins (063)

2004 JMPR

Toxicological evaluations	**Residue evaluations**
New compounds	***New compounds***
fludioxinil	fludioxinil
trifloxystrobin	trifloxystrobin
Periodic re-evaluations	***Periodic re-evaluations***
cyhexatin (067)/azocyclotin (129)	ethoprophos (149)
glyphosate (158)	metalaxyl-M
phorate (112)	paraquat (057)
pirimicarb (101)	prochloraz (142)
triadimefon (133) {should be evaluated	propineb
triadimenol (168) {together	
Evaluations	***Evaluations***
captan (007) – acute toxicity	chlorpyrifos (017)
fenpyroximate (193) – acute toxicity	dithiocarbamates (105)
folpet (041) – acute toxicity	guazatine (114)
guazatine (114)	malathion (047)
haloxyfop (194)	oxydemeton-methyl (166)
phosmet (103) – acute toxicity	

2005 JMPR

Toxicological evaluations	**Residue evaluations**
New compounds	***New compounds***
dimethenamid-P	dimethenamid-P
fenhexamid	fenhexamid
indoxacarb	indoxacarb
novaluron	novaluron
Periodic re-evaluations	***Periodic re-evaluations***
	alpha and zeta cypermethrin
	cypermethrin (118)
benalaxyl (155)	cyhexatin (067)/ azocyclotin (129)
clofentezine (156)	endosulfan (032)
propamocarb (148)	glyphosate (158)
propiconazole (160)	methoprene (147)
	phorate (112)
	terbufos (167)
Evaluations	***Evaluations***
bentazone (172) _ acute toxicity	ethoxyquin (035)
dimethipin (151) – acute toxicity	methiocarb (132)
ethoxyquin (035)	
fenpropimorph (188) – acute toxicity	
imazalil (110) – acute toxicity	

2006 JMPR

Toxicological evaluations	**Residue evaluations**
New Compounds	***New Compounds***
bifenazate	bifenazate
pyrimethanil	pyrimethanil
Periodic re-evaluations	***Periodic re-evaluations***
cyromazine (169)	pirimicarb (101)
flusilazole (165)	triazophos (143)
procymidone (136)	triadimefon (133) {should be evaluated
profenofos (171)	triadimenol (168) {together
Evaluations	*Evaluations*

2007 JMPR

Toxicological evaluations	**Residue evaluations**
New Compounds	***New Compounds***
Periodic re-evaluations	***Periodic re-evaluations***
azinphos-methyl (002)	clofentezine (156)
cyfluthrin/beta cyfluthrin (157)	permethrin (120)
fentin (040)	propamocarb (148)
vinclozolin (159)	propiconazole (160)
	triforine (116)
Evaluations	***Evaluations***

2008 JMPR

Toxicological evaluations	**Residue evaluations**
New Compounds	***New Compounds***
Periodic re-evaluations	***Periodic re-evaluations***
bioresmethrin (93)	benelaxyl (155)
buprofezin (173)	cyromazine (169)
chlorpyrifos-methyl (090)	*lamba*-cyhalothrin replacement of cyhalothrin
hexythiazox (176)	flusilazole (165)
	procymidone (136)
	profenofos (171)
Evaluations	***Evaluations***

2009 JMPR

Toxicological evaluations	**Residue evaluations**
New Compounds	***New Compounds***
Periodic re-evaluations	***Periodic re-evaluations***
bifenthrin (178)	azinphos-methyl (002)
cadusafos (174)	cyfluthrin/beta cyfluthrin (157)
chorothalanil (081)	fentin (040)
cycloxydim (179)	vinclozolin (159)
Evaluations	***Evaluations***

2010 JMPR

Toxicological evaluations	**Residue evaluations**
New Compounds	***New Compounds***
Periodic re-evaluations	***Periodic re-evaluations***
dithianon (028)	bioresmethrin (93)
fenbutatin oxide (109)	buprofezin (173)
	chlorpyrifos-methyl (090)
	hexythiazox (176)
Evaluations	***Evaluations***

2011 JMPR

Toxicological evaluations	**Residue evaluations**
New Compounds	***New Compounds***
Periodic re-evaluations	***Periodic re-evaluations***
	amitraz (122)
	bifenthrin (178)
	cadusafos (174)
	chorothalanil (081)
Evaluations	***Evaluations***

2012 JMPR

Toxicological evaluations	**Residue evaluations**
New Compounds	***New Compounds***
Periodic re-evaluations	***Periodic re-evaluations***
	cycloxydim (179)
	dithianon (028)
	fenbutatin oxide (109)
Evaluations	***Evaluations***

ANNEX I

CANDIDATE CHEMICALS FOR PERIODIC RE-EVALUATION –NOT YET SCHEDULED

(confirmation of support required by November 2003)

aldicarb (117)	diquat (031)
bromopylate (070)	etofenprox (184)
dichlorvos (025)	fenropathrin (185)
dicofol (026)	

ANNEX II

CHEMICALS PROPOSED FOR PRIORITY LISTING BUT FOR WHICH FURTHER CONSIDERATION IS REQUIRED BEFORE A DECISION CAN BE MADE.

DDT (EMRLs)

Gentamicin, oxytetracycline hydrochoride

MRLs for various pesticides on spices based on monitoring data.