DITHIOCARBAMATES (105)

APPRAISAL

Mancozeb, maneb and propineb were reviewed in the periodic review programme in 1993 and MRLs for dithiocarbamates were recommended.

Metiram, another dithiocarbamate, has now been evaluated by the present Meeting as a new compound, and the evaluation is elsewhere. The maximum residues arising from the use of metiram according to GAP do not exceed the current recommendations for dithiocarbamates, where these exist, but additional MRLs are needed for commodities that are not already covered.

The Meeting believed that it would be useful to have a consolidated list of the current recommendations that showed the compound(s) contributing to the recommendation for each commodity, and such a list is given in the Table of recommendations below.

The 1993 JMPR had estimated a maximum residue level of 2 mg/kg for dithiocarbamates on mangoes arising from the use of mancozeb (Report, p.85), but the entry had been inadvertently omitted from Annex I. The entry is included in the following Table as a JMPR recommendation.

The Meeting noted that there is a CXL for dithiocarbamate in endive, but no recommendation had been made during the 1993 periodic review of mancozeb, maneb and propineb. In the absence of adequate data the recommendation for an MRL should have been withdrawn. The recommendation to withdraw the CXL is now included in the following Table.

RECOMMENDATIONS

The maximum residue levels listed below are recommended for use as MRLs.

Definition of the residue: The MRLs refer to total dithiocarbamates, determined as CS_2 evolved during acid digestion and expressed as mg CS_2/kg .

Commodity		Recommended MRL, mg/kg	Compounds on which recommendations are based ¹			are based ¹
CCN	Name					
AM 0660	Almond hulls	20		maneb		
TN 0660	Almonds	0.1*	mancozeb	maneb		
VS 0621	Asparagus	0.1	mancozeb			
FI 0327	Banana	2	mancozeb			
GC 0640	Barley	1	mancozeb			
AS 0640	Barley straw and fodder, dry	25	mancozeb	maneb		
VB 0041	Cabbages, Head	5	mancozeb	maneb		
VR 0577	Carrot	1	mancozeb			
VS 0624	Celery	Withdrawn ²				
FS 0013	Cherries	Withdrawn ²				

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Commodity		Recommended MRL, mg/kg	Compounds on which recommendations are based ¹				
CCN	Name						
VP 0526	Common bean (pods and/or immature seeds)	1				<u>metiram</u>	
VL 0510	Cos lettuce	10		maneb			
FB 0265	Cranberry	5	mancozeb				
VC 0424	Cucumber	2	mancozeb	maneb			
FB 0021	Currants, Black, Red, White	10	mancozeb			metiram	
MO 0105	Edible offal (Mammalian)	0.1	mancozeb			metiram	
PE 0112	Eggs	0.05*	mancozeb				
VL 0476	Endive	Withdrawn ⁴					
VA 0381	Garlic	0.5	mancozeb				
FB 0269	Grapes	5	mancozeb	maneb	propineb	metiram	
DH 1100	Hops, dry	30				metiram	
VL 0480	Kale	15	mancozeb	maneb			
VA 0384	Leek	0.5	mancozeb				
VL 0482	Lettuce, Head	10	mancozeb	maneb		metiram	
AS 0645	Maize fodder	2	mancozeb				
FC 0003	Mandarins	10	mancozeb				
FI 0345	Mango	2	mancozeb				
MM 0095	Meat	0.02*	mancozeb			metiram	
VC 0046	Melons, except Watermelon	0.5	mancozeb		propineb		
ML 0106	Milks	0.05*	mancozeb			metiram	
VA 0385	Onion, Bulb	0.5	mancozeb		propineb		
FC 0004	Oranges, Sweet, Sour	2	mancozeb				
FI 0350	Papaya	5	mancozeb				
FS 0247	Peach	Withdrawn ⁵					
SO 0697	Peanut	0.1*	mancozeb				
AL 0697	Peanut fodder	5	mancozeb				
VO 0445	Peppers, Sweet	1	mancozeb	maneb			
FS 0014	Plums (including Prunes)	Withdrawn ²					
FP 0009	Pome fruits	5	mancozeb		propineb	metiram	
VR 0589	Potato	0.2	mancozeb	maneb	propineb	<u>metiram</u>	
PO 0111	Poultry, Edible offal of	0.1	mancozeb				
PM 0110	Poultry meat	0.1	mancozeb				
VC 0429	Pumpkins	0.2	mancozeb				
VA 0389	Spring onion	10		maneb			
VC 0431	Squash, Summer	1	mancozeb				
FB 0275	Strawberry	Withdrawn ⁵					
VR 0596	Sugar beet	0.5	mancozeb	maneb			
AV 0596	Sugar beet leaves or tops	20	mancozeb	maneb			
VO 0447	Sweet corn (corn-on-the-cob)	0.1*	mancozeb				
VO 0448	Tomato	5	mancozeb	maneb	propineb	metiram	
VC 0432	Watermelon	1	mancozeb	maneb			
GC 0654	Wheat	1	mancozeb	maneb		metiram	

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Commodity		Recommended MRL, mg/kg	Compounds on which recommendations are based ¹			are based ¹
CCN	Name					
AS 0654	Wheat straw and fodder, dry	25	mancozeb	maneb		metiram
VC 0433	Winter squash	0.1	mancozeb			

¹ The underlined compound(s) have principally determined the estimated maximum residue level
² 1993 recommendation
³ 1995 recommendation
⁴ 1995 recommendation, omitted in 1993 in error
⁵ Withdrawal recommended by 1993 JMPR; withdrawn by 21st CAC