

ALDICARB (117)

EXPLANATION

Aldicarb was evaluated in 1979, 1982, 1985, 1988 and 1990, and a complete re-evaluation is scheduled for 1994. At the 24th Session of the CCPR (1992) the draft MRL of 0.05 mg/kg for aldicarb in Brussels sprouts was held at step 7b to await new data from additional supervised trials (ALINORM 93/24, para 132).

The Meeting has received information on registered uses of aldicarb on Brussels sprouts from The Netherlands and the UK, and reports from supervised trials carried out in the UK.

USE PATTERN

In The Netherlands aldicarb is registered for use against nematodes on Brussels sprouts with broadcast application at planting at a dosage of 3 kg ai/ha. In the UK there is a general registration for the use of aldicarb against aphids, flea beetles and cabbage root fly on brassicas at a dosage of 5.1 g ai/100 m row, equivalent to 0.67-0.84 kg ai/ha, and with one application in-furrow at planting. The pre-harvest interval in the UK is 10 weeks.

RESIDUES RESULTING FROM SUPERVISED TRIALS

New data from supervised trials on Brussels sprouts carried out at 5 sites in the UK were available from Rhone-Poulenc (Table 1). In the trials aldicarb was applied at 3.8 g, 5.1 g, and 7.7 g ai/100 m row. Residues were determined in the whole plants and the edible parts, the "buttons". Residue levels in the buttons after a PHI of 155-198 days ranged from 0.01 to 0.03 mg/kg with one exception where the residue was 0.1 mg/kg. Residues in the whole plant at shorter PHIs (49 and 61 days) were considerably higher.

Table 1. Residues of aldicarb in Brussels sprouts from supervised trials in the UK.

{PRIVATE } Site, Year	Application		PHI, days	Residues, mg/kg	Report
	No.	g ai/100 m row			
Sandy 1977	1	7.7	61 174	whole plants:0.44 buttons:0.01	UNC 78/ 79/80/ 78363
Cottenham 1977	1	7.7	49 155	whole plants:3.6 buttons:0.01	
Mebourne 1978	1	5.1 7.7	171 171	buttons:0.10 buttons:0.03	UNC 108/- 112/ 79934
Filstof 1978	1	5.1 7.7	198 198	buttons:0.03 buttons:0.02	
Ombersley 1978	1	3.8 5.1 7.7	178 178 178	buttons:<0.01 buttons: 0.01 buttons: 0.09	

NATIONAL MAXIMUM RESIDUE LIMITS

The Meeting was informed that the national MRLs in Belgium and The Netherlands for aldicarb in Brussels sprouts were 0.05 mg/kg.

APPRAISAL

At the 24th Session of the CCPR (1992) a proposed MRL of 0.05 mg/kg for aldicarb in Brussels sprouts was held at step 7B awaiting more data from supervised trials.

Data from 5 sites in the UK were available to the Meeting. In the trials aldicarb was applied at 3.8, 5.1 and 7.7 g ai/100 m row: 5.1 g/100 m row is the registered use in the UK. Residues in the buttons were <0.01-0.03 mg/kg except in one trial at 5.1 g/100 m, where the level was 0.1 mg/kg, and one at 7.7 g ai/100m with a residue of 0.09 mg/kg.

RECOMMENDATIONS

On the basis of the data from new supervised trials with aldicarb on Brussels sprouts the Meeting concluded that the residue level shown below is suitable for establishing a maximum residue limit.

Definition of the residue: sum of aldicarb, its sulphoxide and its sulphone, expressed as aldicarb.

{PRIVATE }Commodity		Recommended MRL, mg/kg		PHI on which based, days
CCN	Name	New	Previous	
VB 0402	Brussels sprouts	0.1	0.05T	Application at planting