

## RECOMMENDATIONS

Definition of the residue for compliance with the MRLs for plant commodities: *Cyazofamid*.

Definition of the residue for estimating long-term dietary intake from plant commodities: *Cyazofamid plus CCIM, expressed as cyazofamid*.

Definition of the residue for estimating short-term dietary intake from plant commodities (to be compared to the ARfD for CCIM; an ARfD was determined to be unnecessary for cyazofamid): *CCIM*.

Definition of the residue for compliance with the MRLs and for dietary intake for animal commodities: *Not defined*.

## FUTURE WORK

As future work, the Meeting recommends that methods be developed to assay residues of CCBA (free and conjugated) in animal commodities, and that any such methods include suitable digestion steps for liver.

## DIETARY RISK ASSESSMENT

### *Long-term intake*

The International Estimated Daily Intakes (IEDIs) of cyazofamid were calculated for the 17 GEMS/Food cluster diets using STMRs/STMR-Ps estimated by the current Meeting. The ADI for cyazofamid is 0–0.2 mg/kg bw. The calculated IEDIs for cyazofamid were 0–4% of the maximum ADI.

The Meeting concluded that the long-term intakes of residues of cyazofamid, when cyazofamid is used in ways that have been considered by the JMPR, are unlikely to present a public health concern.

### *Short-term intake*

The International Estimated Short-Term Intakes (IESTI) of CCIM were calculated for food commodities and their processed commodities using HRs/HR-Ps or STMRs/STMR-Ps estimated by the current Meeting. The ARfD for CCIM is 0.2 mg/kg bw. The calculated maximum IESTI for CCIM was 90% of the ARfD for all commodities. The Meeting concluded that the short-term intake of residues of CCIM resulting from uses of cyazofamid, when cyazofamid is used in ways that have been considered by the JMPR, is unlikely to present a public health concern.

## 5.8 CYPRODINIL (207)

### RESIDUE AND ANALYTICAL ASPECTS

Cyprodinil was first evaluated for residues and toxicological aspects by the 2003 JMPR. An ADI of 0–0.03 mg/kg bw for cyprodinil was established, and an ARfD was concluded as unnecessary. The residue definition was established as cyprodinil for both compliance with MRLs and dietary risk assessment for both plant and animal commodities. The residue is fat soluble.

Cyprodinil was evaluated by 2013 JMPR for additional crops. A number of Codex Maximum Residue limits for cyprodinil were established. Cyprodinil was scheduled by the Forty-sixth CCPR meeting in 2014 for evaluation of residue data for additional crops by the JMPR.

#### *Methods of analysis*

The Meeting received two analytical methods for determination of cyprodinil residues in plant matrices which are relevant to this evaluation. The LOQ for the HPLC-MS/MS (226.01–93.10) methods for rapeseed and meal was 0.02 mg/kg, and for rapeseed oil, 0.01 mg/kg.

#### *Stability of residues in stored analytical samples*

The Meeting received information on the storage stability of cyprodinil residues in plant matrices from trials conducted in conjunction with the residue studies submitted to the Meeting. These data and stability data from JMPR 2003 and 2013 covers the maximum storage period for samples in the residue studies submitted to this Meeting.

#### *Residues of supervised trials on crops*

The Meeting received supervised trial data for application of cyprodinil to oilseed rape, potatoes, and carrots, which was evaluated by 2013 JMPR.

#### *Potato*

Cyprodinil is registered in the Brazil for use on potatoes at a GAP of 4× 0.25 kg ai/ha and PHI of 7-days.

The residues of cyprodinil in potatoes from two trials conducted in Brazil and one trial in South Africa matching the Brazilian GAP were all < 0.02 mg/kg (LOQ). The meeting noted that three trials was insufficient to make a recommendation for a maximum residue level for potatoes.

#### *Ginseng*

The meeting received the request to extrapolate the maximum residue level from carrots to ginseng. The 2013 Meeting received supervised residue trials of carrots matching the US GAP. The Meeting noted that although the US GAP for ginseng is the same as that for carrots, the growth traits and cultivation practices are significantly different, and agreed not to extrapolate from carrots to ginseng.

#### *Oilseed*

Cyprodinil is registered in Canada for use on rapeseed at a GAP of 1× 0.365 kg ai/ha and a 35-day PHI.

Nine independent residue trials were conducted in rapeseed at GAP in Canada. Residues in seed of rapeseed at the 35 day PHI were all < 0.02 mg/kg (n=9).

Based on the residues from the Canadian trials, the Meeting estimated a maximum residue level of 0.02 mg/kg for seed of rapeseed and an STMR of 0.02 mg/kg.