

### **MEMBERSHIP**

The Working Group is comprised of the following members:

Ms. Hélène Lachaise (Chairwoman) Bayer CropScience, Lyon, France  
Dr. U. Gisi Syngenta, Basle, Switzerland  
Dr. R. J. Milling BASF Agro, Lyon, France  
Mr. E. Pichon Syngenta, Basle, Switzerland  
Mr. L. Pittá Bayer CropScience, Monheim, Germany  
Mr. M. Refardt Siegfried Agro, Switzerland  
Mr. E. Tedford Syngenta, Basel, Switzerland  
Mr. M. Yokoyama Kumiai, London, UK

### **INTRODUCTION**

The anilinopyrimidines (APs) are a group of fungicides highly active against a broad range of fungi. Commercialised APs include cyprodinil, pyrimethanil and mepanipyrim. The mode of action includes inhibition of methionine biosynthesis and secretion of hydrolytic enzymes. APs show no cross-resistance with other fungicide groups.

Update following the latest AP-FRAC meeting held on December 4th, 2002:

The current sensitivity status of Botrytis in vines and Venturia in apple was discussed.

#### **Botrytis**

Extensive sensitivity monitoring was conducted in European vineyards under normal practice in 2002. As in previous years, a low frequency of less-sensitive isolates was detected, and even where disease pressure was high the field performance remained good.

Globally, the sensitivity situation at the end of the 2002 season remains stable. AP products, applied following the FRAC-AP guidelines, continue to show very good performance in the field, after many years of use.

Nevertheless, evidence from previous field and laboratory trials has shown that there is a medium resistance risk of Botrytis to APs. Therefore, it is important to adhere strictly to the FRAC-AP guidelines for AP use against Botrytis.

#### **Venturia**

In 2002, AP-containing products continued to show good performance in the field in commercial practice.

Nevertheless, evidence from previous field and laboratory trials has shown that there is a medium resistance risk of Venturia to APs. Therefore, it is important to adhere strictly to the FRAC-AP guidelines for AP use against Venturia.

## **General Guidelines**

### Guidelines for the use of AP containing products

The purpose of the use guidelines for AP containing products is to maintain the sensitivity in the target pathogens and to prevent crop losses due to the emergence of resistant pathogen populations.

No loss of field performance of AP products due to resistance has been observed in commercial situations.

The guidelines were reviewed during the meeting on December 4th, 2002 and no changes were considered to be necessary.

## **Botrytis Guidelines**

In situations where up to six Botrytis treatments are made per crop and season, a maximum of two applications with anilinopyrimidine containing products are recommended.

Where two treatments are made per season, the number of applications of AP-containing products is limited to one.

In specific situations where seven or more Botrytis treatments are required per crop and season, a maximum of three applications with anilinopyrimidine containing products is recommended.

Where different AP-containing products are used in one season, the cumulative number of applications with cyprodinil, pyrimethanil or mepanipyrim containing products may not exceed the above maxima.

For specific crops and products, follow use recommendations of individual companies.

## **Venturia Guidelines**

Against Venturia AP solo products can be used to a maximum of four times per season.

Where spray programs include AP containing mixtures, the maximum is five treatments with AP containing products per season. The mixture partner must be an effective scab fungicide.

Where different AP containing products are used in one season, the cumulative number of applications with cyprodinil, pyrimethanil or mepanipyrim containing products may not exceed the above maxima.

Individual products should always be used at recommended dose rates to ensure good field performance and prevent misuse.

Curative use only in conjunction with reliable scab warning systems.

Concentrate the use of the AP containing products to the period where they are most effective, e.g. to the early season with prevailing cool temperatures

### **Contact**

For further information on the Anilinopyrimidines Working Group contact:

Mrs. H. Lachaise  
Chairwoman  
FRAC-AP Working Group  
Bayer CropScience  
14-20, rue Pierre Baizet  
69263 Lyon, France  
Tel N° 0033 4 72 85 27 35  
Fax N° 00 33 4 72 85 29 83