



## **FRAC CODE LIST 1: Fungicides sorted by FRAC Code**

### **INTRODUCTION**

The following table lists commercial fungicides according to their mode of action and resistance risk. The most important bactericides are also included.

The Table headings are defined as:

#### **Code**

Numbers and letters are used to distinguish the fungicide groups. The numbers were assigned primarily according to the time of product introduction to the market. The letters refer to P = host plant defence inducers, M = multi-site inhibitors, and U = recent molecules with unknown mode of action and unknown resistance risk (transient status, mostly not longer than 8 years, until information about mode of action and mechanism of resistance becomes available).

#### **Target Site of Action**

If available the biochemical mode of action is given. In many cases the precise target site is not known. However, a grouping can be made due to cross resistance profiles within a group or in relation to other groups.

#### **Group Name**

The Group Names listed are widely accepted in literature. They are based on different sources (mode of action, first important representative, chemical group).

#### **Chemical Group**

Sub-grouping due to chemical considerations.

#### **Common name**

Accepted (or proposed) common name for an individual active ingredient expected to appear on the product label as definition of the product.

#### **Comments on Resistance**

If field resistance is known to one member of the Group, it is most likely but not exclusively valid that cross resistance to other Group members will be present. There is increasing evidence that cross resistance may not be clearly visible between Group members and that the degree of the effect can differ both between group members and fungal species or even within species. For the latest information on resistance and cross resistance status of a particular fungus-fungicide complex, you are advised to contact your local FRAC representative, product manufacturer's representative or crop













