



## TECHNICAL DATA BULLETIN

### PRODUCT TECHNICAL INFORMATION AND APPLICATIONS

**FUNRAZ<sup>®</sup> 400EC**  
(PROCHLORAZ 400 g/L EC)

FRAC 3; DMI: imidazole

#### 1. INTRODUCTION:

**Funraz** 400EC is an emulsifiable concentrate formulation containing 400 g/L of the active ingredient **Prochloraz**. It is used for the prevention and eradication of a wide range of fungal plant disease in agricultural crops. Particularly effective against diseases affecting field crops, fruit, turf, and vegetables. It is recommended for use in cereals against *Pseudocercospora*, *Pyrenophora*, *Rhynchosporium*, and *Septoria* spp., with useful activity against *Erysiphe* spp.; in oilseed rape against *Alternaria*, *Botrytis*, *Pyrenopeziza* and *Sclerotinia* spp. Useful activity is also shown against *Ascochyta* and *Botrytis* spp. in field legumes; and *Cercospora* and *Erysiphe* spp. in beet. Good activity against storage or transit diseases of citrus and tropical fruit when applied as a dip treatment. Also in mushrooms against *Verticillium fungicola* and *Mycogone perniciosus*, and in rice against *Pyricularia*. A seed treatment will control several cereal diseases caused by *Cochliobolus*, *Fusarium*, *Pyrenophora* and *Septoria* spp., and, in *Alternaria* flax,

#### 2. PHYSIOCHEMICAL PROPERTIES

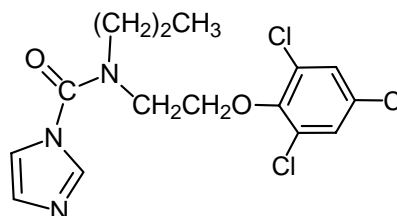
Assay:	"Prochloraz" 400 ± 20 g/L
Appearance:	Clear yellow to brown liquid free of visible impurities
Odour	Aromatic
Density:	1.0580 Kg/L @ 20°C
Flash Point:	44°C
Water contents:	0.388 % w/w
Acidity as H <sub>2</sub> SO <sub>4</sub> :	0.101% w/w



### 3. ACTIVE INGREDIENT

Common name	Prochloraz
Chemical Group	Imidazole
CAS Registry No.	67747-09-5
Molecular Formula	C <sub>15</sub> H <sub>16</sub> Cl <sub>3</sub> N <sub>3</sub> O <sub>2</sub>

Structural Formula



Molecular weight	376.7
Vapour Pressure	1.5 10 <sup>-1</sup> mPa (25 °C); 9.0 10 <sup>-2</sup> mPa (20 °C)
K <sub>ow</sub> log P	4.12 (unionised)
Acute oral LD <sub>50</sub> , Male rat	1600 - 2400 mg/kg

### 4. MODE OF ACTION:

**Funraz** 400EC contains the active ingredient Prochloraz which Fungicide with protective and eradicant action. It is effective against a wide range of diseases affecting field crops, fruit, turf, and vegetables as a Steroid demethylation (ergosterol biosynthesis) inhibitor. Prochloraz acts as a preventive and eradicative fungicide with strong contact action.

### 5. USES:

*Funraz 400EC* is a protectant and eradicant fungicide effective against a wide range of diseases affecting several crops such as *Alternaria*, *Fusarium*, *Cercospora*, *Erysiphe*, *Pseudocercospora*, *Pyrenophora*, *Rhynchosporium*, *Septoria*, *Pyrenopeziza* and *Sclerotinia* spp. etc..



**Funraz 400EC** is used for the control of Powdery mildew, Fusarium, Cercospora, Botrytis, Scab, Alternaria, Eyespot, Septoria and Sclerotinia. Funraz 400EC is used on cereals, oilseed rape, flax and woody ornamentals. It is also used for seed treatment.

**Funraz 400EC** is a very broad-spectrum fungicide with strong contact activity.

**Funraz 400EC** becomes rain - fast within three hours from application.

## 6. APPLICATION:

The following table can be used as a guide for the application of **Funraz 400EC**

**Funraz 400EC** is applied at the first sign of infection and repeated as necessary. It is applied as a foliar spray after being diluted in water. Funraz 400 EC is recommended to be applied at the rate of 400 – 500 g a.i. / ha. i.e. 1.0 – 1.25 L product / ha.

### **Recommendations for Use**

<b>Crop</b>	<b>Target Diseases</b>	<b>Application Rate</b>	<b>PHI</b>
<b>Wheat and Barley</b>	<i>Fusarium</i> spp	1.0 L / ha to be applied at the first sign of infection using a spray volume of 200 L / ha. This volume may be increased to 400 L/ha for dense and tall crop.	30 days
	Yellow Leaf Sport ( <i>Helmenthosporium</i> spp)		
	Black Mould ( <i>Cladosporium herbarium</i> )		
	Sooty Mould ( <i>Alternaria</i> spp.)		
	Glume Blotch ( <i>Septori</i> sp.)		
	Leaf Spot ( <i>Septoria tritici</i> )		
	Leaf Blotch ( <i>Rhynchsporium</i> )		
Net Blotch			



## 7. PHYTOTOXICITY

**Funraz** 400EC is not phytotoxic when used as directed. However, certain apple varieties are sensitive to Prochloraz / Manganese Complex.

## 8. COMPATIBILITY:

**Funraz** 400EC is compatible with other pesticides. However, a small test for compatibility has to be carried out before mixing in large quantities.

## 9. HARVEST INTERVAL

Varies with the crop (21 - 24 days). For details please refer to the product label.

## 10. IMPORTANT NOTES

Maximum number of treatments is two sprays per Season.

A period of at least three hours without rain should follow spraying.

Toxic to fish.

Harmful if swallowed.

Irritating to skin and eyes.

Flammable

## 11. HANDLING, STORAGE AND TRANSPORTATION:

When handling **Funraz** 400 EC wear a protective neoprene gloves, cotton overalls and rubber boots. **Funraz** 400EC should be store in its original tightly closed container in a cool dry place out of reach of children and away from feed and food products.