

Collis SC[®] 30%

Collis SC®

Prevention of powdery
mildew

 - **BASF**

The Chemical Company

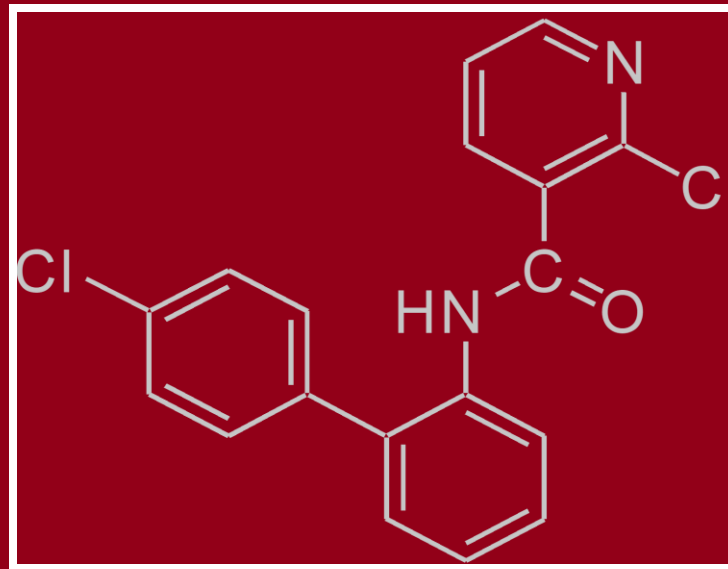
F 500 

Active ingredients (1)

Common name: **boscalid**

Chemical group: **anilide - carboxamide**

Structural formula:



Molecular formula: **C₁₈H₁₂Cl₂N₂O**

Active ingredients (1)

NOMENCLATURE

Common name: boscalid (BSI, pa ISO)

IUPAC name: 2-chloro-*N*-(4'-chlorobiphenyl-
2-yl)nicotinamide

Chemical Abstracts name:

2-chloro-*N*-(4'-chloro[1,1'-
biphenyl]-2-yl)-3-pyridine
carboxamide

Other names: nicobifen (former provisional
ISO name)CAS RN [188425-85-6]

BAS N° codes: BAS 510 F (BASF)

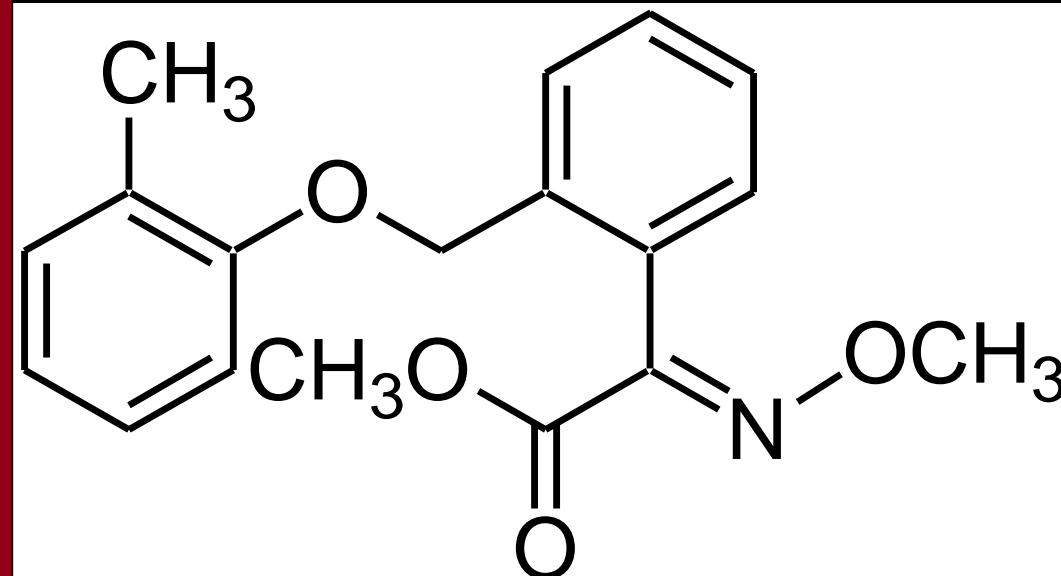


Active ingredients (2)

Common name: **kresoxim-methyl**

Chemical group: **strobilurins**

Structural formula:



Active ingredients (2) - strobilurine

NOMENCLATURE

Common name:	kresoxim-methyl (BSI, pa ISO)
IUPAC name:	methyl (<i>E</i>)-methoxyimino[2-(<i>o</i>-tolylloxymethyl)phenyl]acetate
Chemical Abstracts name:	methyl (αE)-α-(methoxyimino)-2-[(2-methylphenoxy)methyl]benzeneacetate
BAS N° codes:	BAS 490F (BASF)



Formulation

Suspension concentrate

(30% SC):

200 g/l boscalid +

100 g/l kresoxym-methyl



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Mode of action

It blocks electron transport at complex citochrome - bc_1

Avoids electron transport in the mitochondrias

Inhibits fungal respiration

Mode of action

- Double action by strobilurin and anilide, blocking the cellular energy supply.

Consequently, risk of resistance is strongly reduced.

- Uptake and transport in the plant.

Mode of action

- Quasi-systemic, translaminar redistribution and acropetal translocation of both active ingredients

Effect on pathogens

Both active ingredients inhibit germination of fungal spores and interfere with germ tube development. Furthermore, fungal mycelium and sporulation is inhibited by these compounds.

Duration of efficacy

Long lasting protection, due to leaf uptake of both a.i. and deposit formation on leaves.

Collis SC use recommendations

Crop	Disease	Dose rate	N° treat	Interval	PHI days
Grape	<i>Uncinula necator</i>	0.3 - 0.4 l/ha	3	12-14	7-28
Cucurbits	<i>phe cichoracearum</i> <i>erotheca fuliginea</i> <i>naria cucumerina</i>	0.3 - 0.5 l/ha	3	7-10	3
Stonefruit	<i>erotheca pannosa</i>	0.5 l/ha	2-4	7-14	7
Roses Carnations	<i>erotheca pannosa</i> <i>carpon roseum</i> <i>myces dianthi</i>	0.6 - 2.0 l/ha	50% of max. applications per growing cycle	7-10	--

Biological Activity Profile:

Collis SC prevents:

- spore germination
- inhibits germ tube growth
- appressoria- and
- mycelium development,
- reduces sporulation

Biological Activity Profile:

Collis SC

- inhibits fungal respiration,
- disrupting fungal growth by
- blocking the energy supply in the pathogen at mitochondria

Biological Activity Profile:

Collis SC has:

- translaminar action
- local- and upward systemicity
- providing outside – and inside protection

Biological Activity Profile:

Collis SC has double action:

- one from boscalid and
- one from kresoxim-methyl,

consequently, reliable
resistance management!



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Advantages:

- Collis SC has excellent rain-fastness within 1 hour of drying down
- Collis SC protects crops from diseases, it secures maximum yield and quality of harvest.

Advantages:

- Excellent plant compatibility
- Fungicide performance is independent of temperature and climatic conditions
- Can be used in IPM spray programmes