



Plinius S

(Chitosan hydrochloride 3%)

What's Plinius S

Plinius S is a Basic Substance, in accordance with Regulation (EU) No 563/2014 implemented under Regulation (EC) 1107/2009, for use in conventional and organic farming. This formulation is rich in natural compounds, derived from polysaccharides of chitosinic origin, which are secondary compounds of cellulose and chitin, the main components of the exoskeleton of insects and crustaceans and equally found in the cell walls of fungi.

How does it work

The different components of the formulation stimulate the plant to produce phytoalexins, which are compounds with antimicrobial activity through action mechanisms known as SAR (Systemic Acquired Resistance) and ISR (Induced Systemic Resistance). The treated plant is induced, via an eliciting biochemical message, to the biosynthesis of pathogenesis proteins, "PR proteins", involved in the SAR mechanism.

Furthermore, the plant recognises chitosinic derivatives as molecules free from "non-self" pathogens, activating the defence mechanisms in an intense and rapid manner. This creates the conditions for metabolic decline of the pathogen and its reproductive structures (spores) in addition to fungicidal and bactericidal effects.

Dose rate and application

	<u>Foliar</u>	<u>Water Rate</u>
Vegetables (<i>open field and protected</i>)	2-3 L/Ha	300-800 l/ha (<i>open field</i>) -600-1000 L/Ha (<i>protected</i>)
Salads and baby leaf	2-3 L/Ha	400-1000 l/ha
Watermelons, melons and small fruits	2-3 L/Ha	400-1000 l/ha
Wine and table grapes, Drupacee	2-3 L/Ha	800-1200 l/ha
Cereals and forage	2-3 L/Ha	300-600 l/ha
Herbs	2-3 L/Ha	400-600 l/ha

Warnings

The product can be mixed with copper and sulphur salts. Do not mix with acid-reaction formulations. In the case of mixtures with synthetic fungicides use the minimum dose on the label of the fungicide.