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# Isofetamid

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Kenja 400SC<sup>®</sup>, Kabuto Fungicide SC<sup>®</sup>

**A 4<sup>th</sup> generation SDHI**



# Isofetamid

**Mode of Action: SDHI (succinate dehydrogenase inhibitor)**

**FRAC Group: 7**

**Spectrum: Broad Spectrum (no Oomycete, limited Basidiomycete control)**

**Type of Activity: Preventive, curative, locally systemic**

**Registration: US and Canada (Mexico pending)**

**MRLs: USA, Canada, Japan (2017), Codex (2017)**



# Isofetamid EPA approved label

CROP	DISEASE	Rate	Number of applications	Timing
Almond	Blossom blight ( <i>Monilinia laxa</i> ) Shot hole ( <i>Wilsonomyces carpophilus</i> ) Anthracnose ( <i>Colletotrichum acutatum</i> ) Jacket rot ( <i>Botrytis cinerea</i> ) Alternaria leaf spot ( <i>Alternaria alternata</i> )	13.5 to 17 fl oz/A	4	Pink bud to petal fall  (No applications after 1 <sup>st</sup> cover)
Canola	White mold ( <i>Sclerotinia sclerotiorum</i> )	10.25 to 12 fl oz/A	2	Up to 2 applications (BBCH 62, 69)
Grape	Bunch rot ( <i>B. cinerea</i> ) Powdery mildew ( <i>Erysiphe necator</i> ) Sour rot ( <i>Colletotrichum spp.</i> )	20 to 22 fl oz/A	3	14 day PHI
Strawberry	Gray mold ( <i>B. cinerea</i> ) Powdery Mildew ( <i>Podosphaera aphanis</i> ) Anthracnose ( <i>C. fragariae</i> )	13.5 to 15.5 fl oz/A	5	0 day PHI
Lettuce	Sclerotinia drop ( <i>S. minor, S. sclerotiorum</i> )	12.3 fl oz/A	2	14 day PHI
Turf	Dollar spot ( <i>Sclerotinia homoeocarpa</i> )	0.4 to 0.5 fl oz/1000 <sup>2</sup>		14 day intervals

**REI – 12 hours for all labeled uses**



# Isofetamid EPA submitted label

CROP	DISEASE	Rate	Number of applications	Timing
Berry and small fruit  Except: Subgroups 13-07C, 13-07F, 13-07G	Gray mold ( <i>B. cinerea</i> )	13.5 to 15.5 fl oz/A	5	0 day PHI
Stone Fruit	Blossom blight, Brown rot ( <i>Monilinia</i> spp.)	12.5 fl oz/A	6	1 day PHI
Pome Fruit	Apple scab ( <i>Venturia inaequalis</i> ) Pear scab ( <i>Venturia pirina</i> ) Suppression: Powdery mildew ( <i>Podosphaera leucotricha</i> )	12.5 fl oz/A	6	20 day PHI
Legume vegetables, Crop Group 6A  Except soybean	White mold ( <i>Sclerotinia</i> spp.) Gray mold ( <i>Botrytis cinerea</i> )	17 fl oz/A	4	Edible-podded and succulent beans: 14 day PHI Lima beans: 30 day PHI



# Isofetamid acute toxicity

Type of study	Species	Results
Oral route	Rat	LD <sub>50</sub> >2000 mg/kg*
Dermal route	Rat	LD <sub>50</sub> >2000 mg/kg*
Inhalation	Rat	LC <sub>50</sub> at 4 hours > 5.13 mg/L
Skin irritation	Rabbit	Non-irritating
Eye irritation	Rabbit	Non-irritating
Skin sensitization	Mouse	Not sensitizing

\*Maximum rate tested

# Pyriofenone

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Prolivo 300SC®

**Unique action for powdery  
control**



# Prolivo 300SC

<b>Mode of Action:</b>	<b>Likely actin disrupter</b>
<b>FRAC Group:</b>	<b>U8 (moderate potential for resistance)</b>
<b>Spectrum:</b>	<b>Powdery mildews</b>
<b>Type of Activity:</b>	<b>Preventive, curative, locally systemic</b>
<b>Registration:</b>	<b>US and Canada in Q4 2016*†</b>

\*Registered as Property 180SC and Kusabi 300SC in EU,  
Property 300SC in Korea and Japan

†Currently seeking registration in Canada as Property 300SC





# PROLIVO 300SC submitted label

Crop	Diseases	Rate fl oz/A	Number of applications	Timing
Berry and small fruits	<i>Erysiphe necator</i> <i>Podosphaera aphanis</i>	4 – 5	3 – 4	Applications to grape and similar vine climbing fruits should be made on a 14- to 21-day interval.  Applications to strawberries and other similar low growing berries should be made on a 7- to 10-day interval.

The Pre-Harvest Interval (PHI) for all crops on the label is 0 days.



# Pyriofenone acute toxicity

Type of study	Species	Results	
		Pyriofenone	PROLIVO 300SC
Oral route	Rat	LD <sub>50</sub> >2000 mg/kg	LD <sub>50</sub> >2000 mg/kg
Dermal route	Rat	LD <sub>50</sub> >2000 mg/kg	LD <sub>50</sub> >2000 mg/kg
Inhalation	Rat	LC <sub>50</sub> at 4 hours >5.18 mg/L	LC <sub>50</sub> at 4 hours > 2.78 mg/L
Skin irritation	Rabbit	Non-irritating	Non-irritating
Eye irritation	Rabbit	Non-irritating	Minimally irritating
Skin sensitization	Mouse	Not sensitizing	----
	Guinea Pig	----	Not sensitizing

# Cyazofamid

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Ranman 400SC, Segway, Segway-O

**Oomycete control in a class of  
its own**



# Ranman 400SC

<b>Mode of Action:</b>	<b>Quinone inside inhibitor (Qil)</b>
<b>FRAC Group:</b>	<b>21</b>
<b>Spectrum:</b>	<b>Oomycetes</b>
<b>Type of Activity:</b>	<b>Preventive, curative, locally systemic</b>

# Ranman IR-4 registrations

**Recent additions to Ranman label include herbs and greenhouse peppers and tomatoes lead by IR-4**

**Current projects include: strawberries and dried beans**

