













## GRAPE CROP CARE GUIDE

Syngenta is committed to helping grape growers produce the highest-quality crop possible. Our goal is to aid grape growers in producing higher marketable yields, year after year, with proven solutions. This brochure is designed to provide a snapshot of the Syngenta portfolio.

FUNGICIDES					
PRODUCT OVERVIEW	REI	PHI	RATE	MAXIMUM/CROP	LABELED USES
 <p>Abound® fungicide is a highly active fungicide that aids in control of black rot and <i>Phomopsis</i>.</p>	4 hours	14 days	10 – 15.5 fl oz/A	90 fl oz/A/season	<i>Phomopsis</i> , black rot Refer to label for more
 <p>Aprovia® fungicide delivers enhanced, broad-spectrum disease control with the power of one active ingredient – Solatenol® fungicide. Aprovia demonstrates excellent activity on many other diseases in grapes, such as black rot and leaf spot.</p>	12 hours	21 days	8.6 – 10.5 fl oz/A	31.5 fl oz/A/season	Powdery mildew, <i>Alternaria</i> rot, angular leaf spot, anthracnose, black rot, leaf blight, <i>Phomopsis</i> cane and leaf spot, rotbrenner, <i>Septoria</i> leaf spot
 <p>A combination of two fungicides for resistance management, Inspire Super® fungicide offers disease control for grapes. It also provides excellent rainfastness and flexible application options, easily fitting into existing disease control programs for optimal yield and quality.</p>	12 hours	14 days	16 – 20 fl oz/A	80 fl oz/A/season	Powdery mildew, <i>Botrytis</i> bunch rot and blight, <i>Alternaria</i> rot, <i>Septoria</i> leaf spot, angular leaf spot, rotbrenner, black rot, anthracnose, leaf blight
 <p>Miravis® Prime fungicide gives vegetable and specialty crop growers a more powerful option for controlling a broader disease spectrum including <i>Botrytis</i>, white mold, powdery mildew and early blight.</p>	12 hours	14 days	9.2 – 13.4 fl oz/A 10.3 – 13.4 fl oz/A for gray mold	35.6 fl oz/A/year Do not exceed 2 applications at the maximum rate per year	<i>Alternaria</i> rot, angular leaf spot, anthracnose, black rot rot, leaf blight, leaf spot, powdery mildew, rotbrenner, <i>Septoria</i> leaf spot, sour rot, gray mold
 <p>Quadris Top® fungicide offers growers a high level of activity and reliability. With two active ingredients for control of many important plant diseases, its low use rates and application flexibility make it a great addition to many Integrated Pest Management programs.</p>	12 hours	14 days	12 – 14 fl oz/A	56 fl oz/A/season	<i>Alternaria</i> rot, angular leaf spot, <i>Phomopsis</i> cane and leaf spot, rotbrenner, <i>Septoria</i> leaf spot, powdery mildew, rotbrenner, black rot, anthracnose, leaf blight, downy mildew

\*Refer to label for specific instructions for use in conjunction with a nonionic surfactant

## FUNGICIDES

PRODUCT OVERVIEW	REI	PHI	RATE	MAXIMUM/CROP	LABELED USES
 <p>Due to its LOK + FLO™ technology, Revus® fungicide produces quality grapes even under adverse conditions. Providing determined disease control, Revus defends against downy mildew, late blight and Phytophthora blight.</p>	4 hours	14 days	8 fl oz/A	32 fl oz/A/year	Downy mildew
 <p>Using a combination of mefenoxam and mancozeb, Ridomil Gold® MZ WG fungicide controls diseases caused by the Phycomyceete family of fungi and other fungal pathogens.</p>	48 hours	66 days	2.5 lbs/A	10 lbs/A/season	Downy mildew
 <p>With a combination of Ridomil Gold® fungicide and copper hydroxide, Ridomil Gold® Copper fungicide provides reliable control of a variety of diseases such as downy mildew.</p>	48 hours	42 days	2 lbs/A	Refer to label	Downy mildew
 <p>Using two highly effective active ingredients, Switch® 62.5WG fungicide controls gray mold and other important diseases in grapes. Switch attacks disease pathogens at four different stages in the pathogen life cycle to provide long-lasting control at low use rates.</p>	12 hours	7 days	11 – 14 oz/A	56 oz/A/year	<i>Botrytis</i> (gray mold), sour rot
 <p>Attacking diseases in at least two sites, Vanguard® WG fungicide inhibits leaf penetration and growth of pathogens within plant tissue. Vanguard WG offers systemic, long-lasting protection against a wide range of fungal diseases in a variety of crops both before and after infection.</p>	12 hours	7 days	5 – 10 oz/A (tank mixtures)  10 oz/A (alone)	30 oz/A/year	<i>Botrytis</i> bunch rot  Suppression: Powdery mildew

\*Refer to label for specific instructions for use in conjunction with a nonionic surfactant

## HERBICIDES





PRODUCT OVERVIEW	REI	PHI	RATE	MAXIMUM/CROP	LABELED USES
 <p>Fusilade® DX herbicide controls 40 annual and perennial grass weeds. Fusilade DX is rapidly taken up by grass weeds and provides quick, effective control.</p>	12 hours	50 days	Refer to label	72 fl oz/A/year	Directed spray in interspaces and around base of grape plants for post-emergence grass control
 <p>Gramoxone® SL 2.0 herbicide is a nonselective contact herbicide available for control of grasses and broadleaf weeds. It is effective under a variety of conditions.</p>	24 hours	N/A	2.5 – 4 pts/A	5 applications/year	Treat when sucker growth is no more than 8" long  Late-season applications to weeds should be made to avoid contact with desirable foliage
 <p>Gramoxone® SL 3.0 nonselective herbicide controls grasses and broadleaf weeds. It is effective under a variety of conditions.</p>	24 hours	Harvest at normal crop maturity	1.7 – 2.7 pt/A	13.3 pt/A/year  Do not exceed 5 lb ai/A/year of paraquat-containing products	Preplant or preemergence  Refer to label for specific precautions
 <p>Princep® 4L herbicide provides broad-spectrum control of grasses and broadleaf weeds. It also delivers control of shallow-germinating weeds. Princep 4L is an excellent tank-mix partner for added residual control.</p>	12 hours	N/A	2 – 4 qts/A	Once/year	Directed spray  <b>Precaution:</b> Do not use in vineyards established less than three years, or crop injury may occur
 <p>Princep® Caliber 90® herbicide provides broad-spectrum control of grasses and broadleaf weeds. It also delivers control of shallow-germinating weeds. Princep Caliber 90 is an excellent tank-mix partner for added residual control.</p>	12 hours	N/A	2.2 – 4.4 lbs/A	Once/year	Directed spray  <b>Precaution:</b> Do not use in vineyards established less than three years, or crop injury may occur

Gramoxone SL 2.0 and Gramoxone SL 3.0 are Restricted Use Pesticides.

\*Refer to label for specific instructions for use in conjunction with a nonionic surfactant



## INSECTICIDES

PRODUCT OVERVIEW	REI	PHI	RATE	MAXIMUM/CROP	LABELLED USES
 <p>Actara® 25WG insecticide is a foliar-applied insecticide that provides excellent control of many sucking and chewing pests.</p>	12 hours	5 days	1.5 – 3.5 oz/A	7 oz/A/growing season	Japanese beetles, leafhoppers, mealybugs, sharpshooters
 <p>Agri-Flex® miticide/insecticide is a broad-spectrum solution for control of damaging grape pests. A formulation with translaminar and trans-stemic movement, Agri-Flex offers rapid, reliable, long-lasting control while minimizing impact on beneficials.</p>	12 hours For grape girdling & tying in grapes: 4 days	28 days	4.5 – 5.5 fl oz in at least 50 gals of water/A plus nonionic surfactant*	11 fl oz/A/year or 2 applications/growing season	Japanese beetles, mealybugs, sharpshooters, spider mites, variegated leafhoppers, western grape leafhoppers, western grapeleaf skeletonizers
 <p>Agri-Mek® SC miticide/insecticide is based on chemistry with a unique mode of action that delivers long-lasting control of spider mites and leafminers.</p>	12 hours For grape girdling & tying in grapes: 4 days	28 days	1.75 – 3.5 fl oz/A plus nonionic surfactant*	7 fl oz/A/year	Spider mites, leafhoppers, western grapeleaf skeletonizers
 <p>Platinum® 75SG insecticide is a highly concentrated, soil-applied formulation of thiamethoxam, which provides excellent control of many sucking and chewing pests.</p>	12 hours	60 days	2.67 – 5.67 oz/A	5.67 oz/A/year	<i>Phylloxera</i> species, Japanese beetles, leafhoppers, mealybugs, sharpshooters
 <p>Voliam Flexi® insecticide is a broad-spectrum, foliar-applied insecticide that controls key lepidopteran, sucking and chewing insect pests in grapes.</p>	12 hours	14 days	4.5 oz/A	9 oz/A/growing season	Grape berry moths, grape leafrollers, Japanese beetles, leafhoppers, mealybugs, omnivorous leafrollers, <i>Phylloxera</i> species, sharpshooters, western grapeleaf skeletonizers

\*Refer to label for specific instructions for use in conjunction with a nonionic surfactant

**syngenta**

[www.SyngentaUS.com](http://www.SyngentaUS.com)

All photos are either the property of Syngenta or are used with permission.

©2020 Syngenta. **Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or counties. Please check with your state or local extension service to ensure registration status. Agri-Flex, Agri-Mek SC, Gramoxone SL 2.0 and Gramoxone SL 3.0 are Restricted Use Pesticides.** Actara, Agri-Flex, Agri-Mek, Platinum 75SG and Voliam Flexi are highly toxic to bees exposed to direct treatment on blooming crops and weeds. Do not apply these products or allow them to drift onto blooming plants while bees are foraging adjacent to the treatment area. Abound®, Actara®, Agri-Flex®, Agri-Mek®, Aprovia®, Caliber 90®, Fusilade®, Gramoxone®, Inspire Super®, LOK + FLO™, Miravis®, Platinum®, Princep®, Quadris Top®, Revus®, Ridomil Gold®, Solatenol®, Switch®, Vanguard®, Voliam Flexi®, the Alliance Frame, the Purpose Icon and the Syngenta logo are trademarks of a Syngenta Group Company.