







## ALMOND CROP CARE GUIDE





Syngenta is committed to helping almond growers produce the highest-quality crop possible. Our goal is to aid almond growers in producing higher yields, while maintaining tree health year after year. This brochure is designed to provide a snapshot of the Syngenta portfolio.

FUNGICIDES					
PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELED USES
 <p>Inspire<sup>®</sup> fungicide is a broad-spectrum fungicide with systemic and curative properties recommended for the control of many important plant diseases. Inspire may be applied as a foliar spray in alternating spray programs or in tank mixes with other crop protection products.</p>	12 hours	14 days	7 fl oz/A (0.114 lb. a.i.)	28 fl oz/A (0.46 lb a.i./A per crop)	Alternaria leafspot, anthracnose, blossom blight, brown rot, hull rot, powdery mildew, scab, shot hole
 <p>Quadris Top<sup>®</sup> fungicide offers almond growers a reliable strobilurin solution with robust rates of two active ingredients for exceptional disease protection from bud through harvest. Quadris Top exhibits preventive, systemic and curative activity and offers foliar disease control whenever it's needed.</p>	12 hours	28 days	12 – 14 fl oz/A	56 fl oz/A  Do not apply more than 0.46 lb a.i./A per crop of difenoconazole-containing products  Do not apply more than 1.5 lb a.i./A per crop of azoxystrobin-containing products	Alternaria leaf spot, anthracnose, blossom blight, leaf blight, leaf rust, Rhizopus hull rot, scab, shot hole
 <p>For years, growers have used Ridomil Gold<sup>®</sup> SL fungicide as a cornerstone fungicide for control of soilborne diseases on almonds. By applying Ridomil Gold SL, growers can expect this super-systemic fungicide to improve root health, crop vigor and stand establishment. This unique product fits into grower programs for control of soilborne <i>Phytophthora spp.</i> and <i>Pythium spp.</i> diseases.</p>	48 hours	N/A	2 qt/A or 1.5 fl oz/ 1,000 sq ft  For intense plantings (2-3 times the normal planting rate), apply on a per area basis (1,000 sq ft)	Do not exceed the equivalent of 6 lb a.i./A per crop of soil-applied mefenoxam-containing products	Collar rot, crown rot, Phytophthora root rot

## FUNGICIDES

PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELLED USES
 <p>Vanguard® WG fungicide provides almond growers value and proven protection against early-season disease in a variety of weather conditions. Vanguard helps fight brown rot blossom blight, jacket rot and shot hole by working preventively to inhibit leaf penetration and growth of pathogens within plant tissue. Almond growers who want to start the season right and want a better quality almond crop at harvest choose Vanguard.</p>	12 hours	60 days	5 – 10 oz/A	30 oz/A (1.4 lb a.i./A of cyprodinil) per plot of land per year	Brown rot blossom blight, green fruit rot (jacket rot) <sup>1</sup> , shot hole <sup>1</sup>





## HERBICIDES

PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELLED USES
 <p>Broadworks® herbicide is the next innovation from Syngenta for selected tree nut and tree fruit crops. Broadworks delivers enhanced pre and post-emergence control through a mode of action never before available in these crops that will aid in managing glyphosate-resistance broadleaf weeds, such as marestail and fleabane.</p>	12 hours	30 days	3 – 6 fl oz/A	12 fl oz/A/calendar year 3 applications/calendar year	May be used preemergence and post-emergence
 <p>Gramoxone® SL 2.0 herbicide, the ideal burndown herbicide is for broad-spectrum control of even the most difficult weeds. Gramoxone SL 2.0 is the solution for growers who need quality weed control that helps preserve the efficacy of glyphosate and other herbicides.</p>	12 hours	All applications must be made prior to shaking for harvest	1.25 – 4 pt/A	5 applications/year	Post-emergence control of annual grass and broadleaf weeds
 <p>Gramoxone® SL 3.0 is a non-selective contact herbicide available for control of grass and broadleaf weeds. Start the annual fight against weeds with lightning-fast burndown.</p>	24 hours	Harvest crop at normal maturity	1.7 – 2.7 pt/A	13.3 pt/A/year	Postemergence directed spray
 <p>Princep® 4L liquid herbicide controls more than 40 broadleaf weeds and annual grasses. Its long-lasting weed and grass protection is heightened by its excellent crop safety benefits and unbeatable tank-mix flexibility. Princep 4L has many of the same benefits of atrazine but can be used in areas where atrazine is not allowed or desired.</p>	12 hours	N/A	1 – 2 qt/A	2 qt/A (2 lb. a.i./treated acre) per calendar year 1 application/calendar year	Alyssum, bagairgrass, balsamapple, barnyardgrass, bluegrass annual, brachiaria, buclover, careless weed, carpetweed  See label for full list of weeds controlled

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

<sup>1</sup>Suppression.



## INSECTICIDES

PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELED USES
 <p>Agri-Mek<sup>®</sup> SC miticide/insecticide sets the standard for reliable control of economically damaging mite pests in almonds. Agri-Mek SC is more concentrated than the original formulation of Agri-Mek, offering more active ingredient per fluid ounce. In addition, its improved water-based formulation meets low-VOC requirements while providing the level of control growers have come to expect from Syngenta.</p>	12 hours	21 days	2.25 – 4.25 fl oz/A	<p>Do not apply more than 4.25 fl oz/A (or 0.023 lb. a.i./A) of Agri-Mek SC or any other foliar applied abamectin-containing product per application</p> <p>Do not apply more than 8.5 fl oz/A (or 0.047 lb. a.i./A) of Agri-Mek SC or any other foliar-applied abamectin-containing product in a growing season</p>	European red mite, Pacific spider mite, twospotted spider mite, strawberry spider mite
 <p>Besiege<sup>®</sup> insecticide provides excellent knockdown and long-lasting residual of the most difficult-to-control lepidopteran pests and other economically important pests. Its convenient premix formula contains two active ingredients with complementary modes of action for dual protection against key insect pests. Besiege promotes optimal yield and quality in almonds.</p>	24 hours	14 days	6.0 – 12.5 fl oz/A	<p>Do not exceed a total of 31.0 fl oz of Besiege or 0.16 lb a.i. of lambda-cyhalothrin-containing products, 0.12 lb a.i. of lambda-cyhalothrin-containing products post-bloom or 0.2 lb a.i. of chlorantraniliprole-containing products/A/year</p>	<p>Ants, navel orangeworm, obliquebanded leafroller, peach twig borer, plant bug species</p> <p>See label for full list of pests controlled</p>
 <p>When fire ants move in, Clinch<sup>®</sup> ant bait gets them out. It kills ants through ingestion but it does so slowly, allowing worker ants to spread it throughout the colony; and when the queen ingests Clinch, viable egg production ceases. Clinch is the perfect tool to help manage fire ant colonies in almond orchards.</p>	12 hours	0 days	<p><b>Broadcast/Aerial applications:</b> 1 lb/A</p> <p><b>Individual Mound Treatment:</b> 5 – 7 tbs/mound</p>	<p>1 lb/A/application</p> <p>Do not apply more than 4 applications of Clinch ant bait per acre per year.</p>	Fire ant, pavement ant
 <p>Minecto<sup>®</sup> Pro insecticide controls a wide range of lepidopteran pests and sucking insects. A combination of two active ingredients in a convenient premix formulation, Minecto Pro delivers control of multiple pest populations that overlap or occur at the same time.</p>	12 hours	21 days	8 – 12 fl oz/A	12 fl oz/A	<p>Codling moth, European red mite, hickory shuckworm, obliquebanded leafroller, Oriental fruit moth, Pacific spider mite, peach twig borer, pecan nut casebearer, strawberry spider mite, twospotted spider mite</p> <p>Navel orangeworm, walnut aphid</p>

Besiege and Minecto Pro are Restricted Use Pesticides.



## INSECTICIDES

PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELED USES
 <p>With Proclaim® insecticide, growers can have peace of mind knowing their almonds are getting long-lasting protection from lepidopteran pests and worms, as well as good mite suppression, without harm to beneficials. When used during the “May Spray” timing, growers can rely on Proclaim as a stand alone treatment or as a tank mix partner for control of the most damaging almond pests. An application of Proclaim at hull split can control navel orangeworms before they damage crops.</p>	12 hours	14 days	3.2 – 4.8 oz/A	4.8 oz/A/application 14.4 oz/A/season	Leafrollers, navel orangeworm, peach twig borer, Oriental fruit moth, spider mite <sup>1</sup>  See label for full list of pests controlled
 <p>Warrior II with Zeon Technology® insecticide delivers the combination of consistently reliable performance, modern formulation technology and long residual insect protection for almonds. Zeon® Technology, a quick-release micro-encapsulated formulation with a powerful UV blocker, promotes fast knockdown and residual control of the most damaging insects.</p>	24 hours	14 days	1.28 – 2.56 fl oz/A	10.24 fl oz (0.16 lb a.i.)/A/year  Post-bloom: 7.68 fl oz (0.12 lb a.i.)/A/year	Ant, leaffooted bug, leafroller species, navel orangeworm, peach twig borer, plant bug species, stink bug species  See label for full list of pests controlled

<sup>1</sup>Suppression.



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Product performance assumes disease presence.

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