

Smart

# Chlorothalonil 720

**POISON**

KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

PEEL  
HERE

**FUNGICIDE**

ACTIVE CONSTITUENT: 720 g/L CHLOROTHALONIL

Group **M5** Fungicide

For the control of fungal diseases on almonds, apricots, bananas, carrots, celery, cherries, faba beans, grapes, onions, peaches, peanuts, peas, plums, potatoes, tomatoes, turf and vegetables as per the Directions for Use Table.



**IMPORTANT:**  
READ THIS LEAFLET BEFORE USE

**Crop Smart**  
better crop protection

APVMA Approval No: 66374/53528

Contents 10L & 20L

Distributed by:  
Crop Smart Pty Ltd  
ACN 093 927 961  
2409/4 Daydream Street, Warriewood, NSW 2102  
Tel : 1300 783 481, Fax: 1300 783 491

## DIRECTIONS FOR USE

### Restraints:

**DO NOT** mix spraying oils or wetting agents with this product.

**For all stone fruit except Cherries, the following additional restraints apply:**

**DO NOT** use oils after bud-swell and during the season if **Smart Chlorothalonil 720 Fungicide** is to be used after shuck fall.

**DO NOT** tank mix **Smart Chlorothalonil 720 Fungicide** with EC formulations when spraying after shuck fall.

**DO NOT** exceed 3.2 L of **Smart Chlorothalonil 720 Fungicide** per hectare of crop.

### 1. TREE AND VINE CROPS

Rate	Critical Comments
This table shows rates for dilute spraying. For concentrate spraying refer to the Mixing/Application Section.	For uses in the table: Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. <b>DO NOT</b> use at rates greater than 5 times the dilute spraying rate.

Situation and Crop	Disease	State	Rate	WHP (days)	Critical Comments
<b>Almonds</b>	Shot-hole ( <i>Stigmina carpophila</i> ) Stone fruit rust ( <i>Tranzschelia discolor</i> )	SA, Vic, NSW, WA & Tas only	160 mL / 100 L Apply 2000 L/ha	-	Apply at bud-swell, bud-burst, pink bud, shuck fall, cap fall. Apply every 10- 14 days. Apply 1-week pre-harvest.
<b>Apricots</b>	Brown rot – Fruit ( <i>Monilinia fructicola</i> ) Blossom blight ( <i>Monilinia laxa</i> )			7	Apply at bud-swell, bud-burst, pink bud, full bloom. Apply no later than 35 days pre-harvest. See also Additional Restraints for stone fruits.  Spray applications later than 35 days prior to harvest may result in unacceptable fruit skin damage. See also Additional Restraints for stone fruit.

Situation and Crop	Disease	State	Rate	WHP (days)	Critical Comments
	Shot-hole ( <i>Stigmia carpophila</i> ) Stone fruit rust ( <i>Tranzschelia discolor</i> ) Freckle ( <i>Venturia carpophila</i> )				Apply at bud-swell, bud-burst, pink bud, shuck fall, cap fall, then every 10-14 days.
<b>Cherries</b>	Brown rot – Fruit ( <i>Monilinia fructicola</i> ) Blossom blight ( <i>Monilinia laxa</i> )	Qld, SA, Vic, NSW, WA & Tas only			Apply at bud-swell, bud burst, pink bud, early blossom, and full bloom. Apply 3 weeks pre-harvest and 1 week pre-harvest.
	Shot-hole ( <i>Stigmia carpophila</i> ) Stone fruit rust ( <i>Tranzschelia discolor</i> )	All States			Apply at bud-swell, bud burst, pink bud, shuck fall, cap fall, then every 10-14 days. Apply 1-week pre-harvest.
	Transit rot ( <i>Rhizopus stolonifer</i> )	All States			Apply 1-week pre-harvest.
<b>Nectarines</b>	Shot-hole ( <i>Stigmia carpophila</i> )	All States except Qld	160 mL/100 L	7	Apply at bud-swell, pink bud, shuck fall and then repeat each 14 days if weather conditions favour disease. Apply no later than 35 days pre-harvest as unacceptable fruit skin damage may occur. See also Additional Restraints for stone fruits.
	Brown rot – Fruit ( <i>Monilinia fructicola</i> ) Blossom blight ( <i>Monilinia laxa</i> )	All States except Qld	Apply 2000 L/ha		Apply at bud-swell, bud burst, pink bud, early blossom and full bloom. Apply no later than 35 days pre-harvest as unacceptable fruit skin damage may occur. See also Additional Restraints for stone fruits.

Situation and Crop	Disease	State	Rate	WHP (days)	Critical Comments
<b>Peaches</b>	Brown rot - Fruit ( <i>Monilinia fructicola</i> ) Blossom blight ( <i>Monilinia laxa</i> )	All States	160 mL/ 100 L Apply 2000 L/ha		Apply at bud-swell, pink bud, early blossom and full bloom. Apply no later than 35 days pre-harvest as unacceptable fruit skin damage may occur. See also Additional Restraints for stone fruits.
	Shot-hole ( <i>Stigmina carpophila</i> ) Stone fruit rust ( <i>Tranzschelia discolor</i> )	All States	160 mL/ 100 L Apply 2000 L/ha		Apply at bud-swell and continue at 7-14 day intervals. Apply no later than 35 days pre-harvest as unacceptable fruit skin damage may occur. See also Additional Restraints for stone fruits.
	Leaf curl ( <i>Taphrina deformans</i> )	All States	160 mL/ 100 L Apply 2000 L/ha		Apply at bud-swell and continue at 7-14 day intervals. In QLD spray only at bud-swell. Apply no later than 35 days pre-harvest as unacceptable fruit skin damage may occur. See also Additional Restraints for stone fruits.
<b>Grapes</b> <b>Note</b> : russeting of some table grape varieties may occur	Downy mildew ( <i>Plasmopara viticola</i> ) Bunch rot ( <i>Botrytis cinerea</i> )		160 - 210 mL/ 100L	Dessert 7 Wine 14	Spray at first appearance of the foliage disease. Apply at 7-14 day intervals particularly during wet weather and periods of rapid growth. For bunch rot, applications at early full bloom, two weeks later, at veraisson and two weeks prior to harvest. <b>Table grapes</b> - russeting of some varieties may occur. Do not apply after cap fall on these varieties.
	Black Spot (Anthracnose) ( <i>Elsinoe ampelina</i> )		210 mL/ 100 L		If Black Spot has occurred in the vineyard in any of the last three years, apply at budburst and 14 days later when shoots are 10-15 cm long. If wet/humid conditions persist spray again when shoots are 20-30 cm long to protect new growth. Some initial minimal leaf damage on the new shoots of sensitive varieties can occur if spray treatments are applied at budburst and in the first 14 days after budburst. In vineyards with no history of Black Spot, make the first application as soon as conditions favour the development of the disease on the foliage and then at 7-14 day intervals if wet/humid conditions persist. Applications up to cap-fall will not cause russeting in table grape and dried fruit varieties.

<b>Plums</b>	Brown rot – Fruit ( <i>Monilinia fructicola</i> ) Blossom blight ( <i>Monilinia laxa</i> ) (NOT WA)	Qld, SA, Vic, NSW, WA & Tas only	160 mL/ 100 L Apply 2000 L/ha	1	Apply at bud-swell, bud-burst, early blossom, pink bud and full bloom.
	Stone fruit rust ( <i>Tranzschelia discolor</i> ) Shot-hole ( <i>Stigmina carpophila</i> )	All States	160 mL/ 100 L Apply 2000 L/ha		Apply at bud-swell, bud burst, shuck fall and cap fall.

## 2. LEGUMES

Situation and Crop	Disease	State	Rate	WHP (days)	Critical Comments
<b>Beans – Broad</b> (Faba)	Chocolate spot ( <i>Botrytis fabae</i> ) Rust ( <i>Uromyces viciae-fabae</i> )	All States	1.4 - 2.3 L/ha	7	Apply at first sign of disease on the leaves or if weather conditions indicate likely incidence of disease. Repeat at 7-14 day intervals. Use the higher rate if the crop is dense and disease pressure is high.

## 3. VEGETABLES AND FRUIT

Situation and Crop	Disease	State	Rate	WHP (days)	Critical Comments
<b>Bananas</b> Do not apply to bananas within 14 days of applying an oil based spray or crop damage will occur	Leaf Spot ( <i>Mycosphaerella musicola</i> )	Qld, NSW, WA & NT only	1.8 L/ha		<b>For North Qld</b> - Spray every 14 days late January to end of March. Extend to 21 days after March and then 28-35 days in the drier months of the year. <b>For South Qld</b> - Spray every 21 days from start of December to end of April. <b>For NSW</b> - Spray every 21 days from end of November to end of May.

		WA only	1.5 L/ha	1	<b>For WA</b> - Spray every 10-14 days from November to end of May and extend to 14-21 days from May to November.
	Leaf speckle ( <i>Mycosphaerella musae</i> )	Qld, NSW, WA & NT only	3.0 L/ha		Spray schedule same as for control of leaf spot. This product will not eradicate infection already present but will prevent the spread of disease.
<b>Broccoli, Brussels sprouts, Cabbage, Cauliflowers</b>	Ring Spot ( <i>Mycosphaerella Brassicicola</i> )	All States	1.8 – 3.5 L/ha	7	Apply at first sign of disease on the leaves or if weather conditions indicate likely incidence of disease. Repeat at 14-day intervals. Use the higher rate if the crop is dense and disease pressure is high.

Situation and Crop	Disease	State	Rate	WHP (days)	Critical Comments
<b>Artichoke Globe</b>	Grey Mould ( <i>Botrytis cinerea</i> )	All States	1.8 – 2.3 L/ha	1	Apply at 7 – 10 day intervals as required. Use the higher rate if disease pressure is high.
<b>Capsicums Peppers</b>	Grey Mould ( <i>Botrytis cinerea</i> ) Anthracnose ( <i>Colletotrichum acutatum</i> )	All States	1.8 – 2.3 L/ha	1	Apply at 7 – 10 day intervals as required. Use the higher rate if disease pressure is high.
<b>Carrots</b>	Leaf Blight ( <i>Alternaria dauci</i> )	All States	1.8 L/ha	7	Commence application as soon as symptoms favour the development of the disease and then spray every 7-14 days.

<b>Celery</b>	Septoria leaf spot ( <i>Septoria apiicola</i> )	All States	1.8 L/ha	1	Apply every 7-14 days. Apply also to seedbeds.
	Cercospora early blight ( <i>Cercospora apii</i> )	NSW & WA only	1.2 L/ha	1	Apply every 10-14 days.
<b>Curcurbits (including Cantaloupe, Cucumber, Honeydew, Muskmelon,</b>	Downy mildew ( <i>Pseudoperonospora cubensis</i> ) Gummy stem blight ( <i>Didymella bryoniae</i> ) Anthracnose	All States	1.6 - 2.5 L/ha	1	Apply on a 7 to 14 day schedule. Apply rates towards the higher end of the recommended range at 7-day intervals when disease pressure is high. Commence spray program early, at first true leaf and before vining or flowering. When used at these rates, <b>Smart Chlorothalonil 720 Fungicide</b> will suppress powdery mildew
<b>Pumpkin, Squash, Rockmelon, Watermelon, Zucchini</b>	( <i>Colletotrichum orbiculare</i> ) Leaf blight ( <i>Alternaria cucumerina</i> ) Target leaf spot ( <i>Cercospora citrullina</i> )	All States			
	Belly rot ( <i>Rhizoctonia solani</i> )	All States			Suppression of belly rot will be obtained where fruit form on soil when sprayed using the above foliar spray programme.

<b>Situation and Crop</b>	<b>Disease</b>	<b>State</b>	<b>Rate</b>	<b>WHP (days)</b>	<b>Critical Comments</b>
<b>Endive</b>	Grey mould ( <i>Botrytis cinerea</i> )	All States	1.8 - 2.3 L/ha		Apply at 7-10 day intervals as required. Use the higher rate if disease pressure is high.
<b>Leeks Shallots</b>	Purple blotch ( <i>Alternaria porri</i> )	All States	1.8 - 2.3 L/ha		Apply at first appearance of disease. Repeat at 7-10 day intervals, particularly during wet weather.
<b>Okra</b>	Leaf disease/spot	Qld & WA only	1.8 - 2.3 L/ha		Apply at first appearance of disease. Repeat at 7-10 day intervals, particularly during wet weather.
<b>Onions (excluding spring onions)</b>	Downy mildew ( <i>Peronospora destructor</i> )	All States	2.3 L/ha	14	Apply at first sign of disease on the leaves or if weather conditions indicate likely incidence of disease. Repeat at 14-day intervals.
<b>Potato</b>	Early blight or Target spot ( <i>Alternaria solani</i> )	All States	1.1- 1.8 L/ha		Spray at first sign of foliage disease or at flowering time, whichever is earlier. Spray every 7-14 days until within 14 days of desiccation or harvest.

	Late blight or Irish blight ( <i>Phytophthora infestans</i> )				
<b>Rhubarb</b>	Ascochyta leaf spot ( <i>Ascochyta rhei</i> )	All States	140 mL/ 100 L Apply 2000 L/ha	7	Apply every 10-14 days.
<b>Radish</b>	Grey mould ( <i>Botrytis cinerea</i> )	All States	1.8 - 2.3 L/ha	1	Apply every 7-10 day intervals as required. Use the higher rate if disease pressure is high.
<b>Sweet Corn</b>	Turcicum leaf blight ( <i>Exserohilum turcicum</i> )	All States	1.8 - 2.3 L/ha		Apply at first appearance of disease. Repeat at 7-10 day intervals.
<b>Situation and Crop</b>	<b>Disease</b>	<b>State</b>	<b>Rate</b>	<b>WHP (days)</b>	<b>Critical Comments</b>
<b>Tomato</b>	Early blight or Target spot ( <i>Alternaria solani</i> ) Leaf mould ( <i>Fulvia fulva</i> ) Grey leaf spot ( <i>Stemphylium solani</i> ) Botrytis rot or Grey mould ( <i>Botrytis cinerea</i> )	All States			Spray at first appearance of the foliage disease. Spray at 7-14 day intervals. Continue into the picking season to obtain best results against leaf mould and Botrytis rot.
<b>Water Cress</b>	Cercospora leaf spot	Qld & WA only			Apply every 7-10 day intervals as required. Use the higher rate if disease pressure is high.

#### 4. MISCELLANEOUS

Situation and Crop	Disease	State	Rate	WHP (days)	Critical Comments
<b>Ornamentals</b>	Botrytis, Grey mould, Rust diseases, Septoria	All States	100 mL/	-	Apply at 7-14 day intervals. Use 7-day interval under severe conditions. Avoid application to blooms in Azalea, Hydrangea and Petunia.



Chrysanthemums Geraniums, Iris & other ornamentals	and Alternaria leaf spot diseases		100 L		
<b>Tobacco</b>	Tobacco leaf spot ( <i>Ascochyta arida</i> )	Qld and WA only	220 mL/100 L	-	Apply every 7 days in seedbed application only.

Situation and Crop	Disease	State	Rate	WHP (days)	Critical Comments
<b>Turf and Lawns, Bowling greens, Golf courses</b>	Dollar Spot ( <i>Sclerotinia homeocarpa</i> )	NSW, SA, Qld, WA, Vic, ACT only	130-200mL/100m <sup>2</sup> in 20-60 L of water	-	If disease is already established use higher rate. Apply at 7 – 14 day intervals. Under severe conditions spray at 7 day intervals. Do not mow or water treated area until turf or lawn is thoroughly dry.
	Brown Patch ( <i>Rhizoctonia sp</i> )	All States	130-200mL/100m <sup>2</sup> in 20-60 L of water	-	If disease is already established use higher rate. Apply at 7 – 14 day intervals. Under severe conditions spray at 7 day intervals. Do not mow or water treated area until turf or lawn is thoroughly dry.
	Grey Leaf Spot ( <i>Stemphylium solani</i> )	NSW, and WA, only	24 L/ha	-	Apply to leaf as a curative application. Do not irrigate for 24 hours after application.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

**WITHHOLDING PERIODS:**

Artichokes, bananas, capsicums, celery, cucurbits, endive, leek, okra, peppers, plums, radish, shallots, sweet corn, tomatoes, watercress:

**DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.**

Apricots, beans, broccoli, brussels sprouts, cabbages, carrots, cauliflowers, cherries, nectarines, peaches, peas, rhubarb, table grapes:

**DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.**

Onions, wine grapes:

**DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.**

Beans, peanuts, peas:

**DO NOT GRAZE LIVESTOCK ON TREATED CROPS.**

Potatoes, peanuts (Harvest):

**NOT REQUIRED WHEN USED AS DIRECTED****MIXING**

Thoroughly shake and invert the pack several times before opening. Half fill spray vat and with agitation system running, add the required amount of product.

**APPLICATION RATES PER HECTARE:**

- **Low Volume** - 200 or more litres per hectare.
- **High Volume** - 500 or more litres per hectare.
- **Aerial Application** - 20 litres or more per hectare.
- **Mister** - 75 - 255 litres per hectare.

The volume of water applied should increase as the plants grow in size to maintain adequate cover.

**COMPATIBILITY**

This product is compatible with wettable powder and flowable formulations of most commonly used fungicides, insecticides and miticides. Unless experience in your area has shown other combinations to be physically compatible and non-injurious to your crop do not combine with other chemicals, especially oil based emulsifiable or flowable pesticides. This product should not be mixed with spraying oils or sprayed onto crops that have been sprayed with oil for at least 10 days after the last spray.

**Wetting Agents:** The addition of surfactants does not improve this product's efficiency and under some conditions may cause plant injury.

#### **FUNGICIDE RESISTANCE WARNING**

GROUP	<b>M5</b>	FUNGICIDE
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**Smart Chlorothalonil 720 Fungicide** is a member of the multi-site activity group of fungicides. For fungicide resistance management the product is a Group M5 fungicide. Some naturally occurring individual fungi resistant to the product and other Group M5 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by this product or other Group M5 fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use, Crop Smart Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

#### **PROTECTION OF LIVESTOCK**

DO NOT contaminate feed or foodstuffs with this product or empty containers.

#### **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

Dangerous to fish. Do NOT contaminate streams, rivers or waterways with chemical or used containers.

#### **STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seeds and fertilisers.

Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with the relevant Local, State or Territory government regulations. Do not burn empty containers or product.

#### **SAFETY DIRECTIONS**

Attacks eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist. Repeated exposure may cause allergic disorders. Sensitive workers should wear protective clothing. When preparing spray and using prepared spray wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and goggles and disposable mist mask. If clothing becomes contaminated with product or wet with spray remove clothing immediately. If product on skin immediately wash area with soap and water. If product in eyes,

wash out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles and contaminated clothing.

#### **FIRST AID**

If poisoning occurs contact a doctor or Poisons Information Centre (**TEL: 13 11 26**). If swallowed, do NOT induce vomiting. Give a glass of water.

#### **MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet, which can be obtained from the supplier.

#### **CONDITIONS OF SALE**

**Crop Smart Pty Ltd** shall not be liable for any loss, injury, damage or death whether consequential or otherwise, whatsoever or whosoever arising whether through negligence or otherwise, in connection with the sale, supply, use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on **Crop Smart Pty Ltd's** skill of judgement in the purchasing or using the same and every person using this product does so at his own risk absolutely. No representative of **Crop Smart Pty Ltd** has the authority to add or alter these.

IN AN EMERGENCY  
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POLICE OR FIRE BRIGADE