

2012-2847
2012-10-31

AGRICULTURAL

Net Contents : 2 kg

EQUAL® 65WP Fungicide

GROUP	U12	FUNGICIDE
-------	-----	-----------

Wettable Powder

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

GUARANTEE: Dodine 65%

REGISTRATION NO.15608 PEST CONTROL PRODUCTS ACT

NORAC CONCEPTS, INC.
P.O. Box 31097
Guelph, ON N1H 8K1
(519) 821-3633

www.noracconcepts.com

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Store in a cool, dry, ventilated place, away from feeds and foods. Keep away from heat, fire and sparks. Concentrated material may irritate eyes, nose and skin. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling and before eating, drinking or smoking. Wash contaminated clothing with soap and hot water before reuse. Avoid breathing dust or spray mist. Do not contaminate food or feed.

All handlers must wear a long-sleeved shirt and long pants. In addition, wear chemical-resistant gloves and a chemical-resistant apron during mixing/loading activities. Chemical-resistant gloves should also be worn during repair and clean-up activities.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

DO NOT apply this product in a way that it will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area being treated during application.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them.

Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

CAUTION: Do not feed crop refuse to livestock. Do not graze cover crops in treated orchards.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: www.croplife.ca.

FIRST AID: IF ON SKIN OR CLOTHING, take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice. IF IN EYES, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. IF SWALLOWED, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. Call a poison control centre or doctor immediately for treatment advice. IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice. Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Irritation of skin is possible. Apply hand lotion if irritation occurs. If irritation persists, get medical attention.

EMERGENCY TELEPHONE NUMBER All hours, (613) 787-5620 ONLY for health and environmental information.

SPILL CLEANUP Refer to **PRECAUTIONS** section prior to cleanup. Sweep or vacuum the spilled material. Spilled quantity may be salvageable for use. Otherwise, sweepings are to be put in a separate waste container and disposed as indicated in the **DISPOSAL** directions. The vacuum cleaner filter is to be disposed immediately after use and as indicated in the **DISPOSAL** directions.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

PRODUCT INFORMATION EQUAL 65WP is an effective fungicide for the control of apple scab, pear scab and cherry leaf spot. It acts as a protectant, as an eradicant and has some local systemic activity. Excellent redistribution to new growth, if rain occurs after spray application, provides added protection.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product

in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

DIRECTIONS FOR USE:

Apples:

DO NOT apply more than 10.2 kg a.i./ha/year.

DO NOT apply more than 2 applications per year at a rate of 2.2 kg .i./ha/application.

DO NOT apply more than 4 applications per year at a rate of 1.46 kg .i./ha/application.

DO NOT apply less than 7 days from the last application. DO NOT apply within 7 days of harvest.

Cherries (sour and sweet):

DO NOT apply more than 5.8 kg a.i./ha/year.

DO NOT apply more than 2 applications per year at a rate of 1.46 kg a.i./ha/application.

DO NOT apply more than 4 applications per year at a rate of 0.73 kg a.i./ha/application.

DO NOT apply less than 7 days from the last application. DO NOT apply within 7 days of harvest.

Pears:

DO NOT apply more than 10.2 kg a.i./ha/year.

DO NOT apply more than 2 applications per year at a rate of 2.2 kg a.i./ha/application.

DO NOT apply more than 4 applications per year at a rate of 1.46 kg a.i./ha/application.

DO NOT apply less than 7 days from the last application. DO NOT apply within 7 days of harvest.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include but are not limited to the following: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted or fine-textured, such as clay).

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

DO NOT apply by air.

Buffer zones:

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer, or spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than m	
Airblast	Apple, pear	Early growth stage	65	55	25	15	2
		Late growth stage	55	45	15	10	1
	Cherry	Early growth stage	60	50	20	10	2
		Late growth stage	50	40	10	5	1

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that EQUAL 65WP contains a Group U12 fungicide. Any fungal population may contain individuals naturally resistant to EQUAL 65WP and other Group U12 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of EQUAL 65WP or other Group U12 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development. If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

- For further information and to report suspected resistance, contact Norac Concepts Inc. at 519-821-3633 or at www.noracconcepts.com

MIXING: EQUAL 65WP, a fine wettable powder, should be added directly to spray tank when half filled with water. Keep agitator running during filling and spraying. Do not wash wettable powder through filter screen into spray tank.

Spray Volume: Note that rates of application are given in kilograms per hectare. The spray volume per hectare is dependant on the applicator's equipment.

APPLICATION

Apples – Scab- : Apply Equal 65WP at the rate of 1.08 kg - 2.25 kg / ha from green tip through to bloom. Apply at 7 day intervals or as needed to maintain scab control. Use the high rate for high disease pressure and the low rate for low disease pressure. Use 2.25 kg/ha from petal fall through to first cover spray. After this stage, scab protection can be maintained with spray applications of fungicides as recommended in provincial spray calendars. **"After infection" applications:** After an infection period has occurred, use 3.25 kg/ha of EQUAL 65WP during or following a rain from silver tip through to calyx stage and in later cover sprays as needed. While timing of the spray may vary considerably depending upon temperatures, it is recommended that application be made within 36 hours from the beginning of the rain or wet period that caused the infection. Do not apply within 7 days of harvest. Do not feed pomace of treated apples to livestock. **Note:** In areas where EQUAL 65WP does not control apple scab, use an alternate fungicide recommended for scab control.

Pears – Scab - : Use 3.25kg/ha of EQUAL 65WP at 7 day intervals or as needed to maintain scab control from pre-bloom through first cover. Use 2.25 kg/ha in subsequent cover sprays as needed. Do not apply within 7 days of harvest. **Note:** In areas where EQUAL 65WP does not control pear scab, use an alternate fungicide recommended for scab control.

Sour Cherries – Cherry Leaf Spot - : Use 2.25 kg/ha of EQUAL 65WP at petal-fall or when first leaves unfold. Repeat applications thereafter at 7 day intervals. Do not apply within 7 days before harvest. To protect against post-harvest leaf spot defoliation, make an application immediately after picking and as needed.

Note: For use on apples, pears and cherries, consult local agricultural authorities for proper timing of sprays.

PLANT SAFETY: Fruit colour and finish on most apple varieties sprayed with EQUAL 65WP fungicide at recommended dosage have frequently been outstanding. However, russetting of Golden Delicious, Grimes, Golden and Rhode Island Greening may occur in some areas. No russetting of Golden Delicious or other yellow varieties has been experienced in Canada. Freezing, or near freezing temperatures, particularly when accompanied by slow drying conditions, may injure or pre-dispose the fruit to chemical injury. Do not apply EQUAL 65WP immediately before, during or immediately after occurrence of such conditions. Care should be taken to avoid EQUAL 65WP applications on peaches and plums since foliage or fruit injury may result.

COMPATIBILITY: Mixture with KELTHANE 50 W Agricultural Miticide may cause injury under some weather conditions. EQUAL 65WP is not compatible with lime. Consult each label for compatibility prior to use with other products in a tank mix.

EQUAL 65WP WITH OIL INSECTICIDES: Tank mix combinations of EQUAL 65WP and Superior 70 Oil, Shell Canada Superior 70 Spray Oil and Bartlett Superior 70 Oil Emulsifiable Insecticide can be used effectively as a delayed dormant application on apples.

EQUAL 65 WP can be tankmixed with Guthion 50 WSB WP CROP INSECTICIDE. EQUAL 65WP with any of the above mentioned oil mixtures are not compatible with Malathion 25W WP Insecticide, and Sevin Brand 50W CARBARYL INSECTICIDE WETTABLE POWDER.

PROCEDURE FOR TANK-MIXING EQUAL 65WP WITH LISTED OIL INSECTICIDES:

Maintain continuous paddle agitation from the time EQUAL 65WP is added to the spray tank until mixture is sprayed out:

1. EQUAL 65WP should be added to the tank when one-quarter to one-half full with water and allowed to mix thoroughly.
2. If insecticide is used, add as tank is filling.
3. Add oil last when tank is nearly three-quarters full. Consult local agricultural authorities for information on oil and pesticide formulations for tank mixing with EQUAL 65WP.

DILUTE AND CONCENTRATE SPRAY: EQUAL 65WP may be used effectively in dilute or concentrate sprays when applied properly. However, concentrates higher than 5X are not suggested. Fruit and foliage should not be excessively drenched with dilute sprays. Avoid heavy deposits when using concentrate sprays.

ENVIRONMENTAL HAZARDS:

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

EQUAL and APM are registered trademarks of Norac Concepts Inc.
All other products are trademarks of their respective company.

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.