

ARKOS

Agricultural Fungicide

GROUP 3 FUNGICIDE



COMPOSITION
Active Ingredient:

Triflumizole

1-[1-[4-chloro-2-(trifluoromethyl)phenyl]imino]-2-propoxyethyl]-1H-imidazole......42.14%

 Other Ingredients:
 57.86%

 Total:
 100.00%

Contains 4 lb Triflumizole per gallon.

CAUTION KEEP OUT OF REACH OF CHILDREN

FIRST AID

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything to an unconscious person.

EMERGENCY ASSISTANCE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROPHARMA: 1-866-303-6952 or +1-651-603-3432.

FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.

For PRODUCT USE INFORMATION: Call 1-866-761-9397

See inside booklet for additional First Aid, Precautionary Statements, and Directions for Use

EPA REG No. 71089-2

BO EPA Est. No. 037429-GA-002

CJ EPA Est. No. 070815-GA-001

The EPA Establishment Number is identified by the circled letters that match the first two letters in the batch number.

Net Contents: 1 GALLON

Manufactured for:
GENESIS AGRI • PRODUCTS INC.

Warehouse: 2522 Old Town Road, Union Gap, Washington 98903



104515-A (1118)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemically-resistant to this product are listed below.

Applicators and Other Handlers Must Wear: A long-sleeved shirt & long pants; chemical-resistant gloves made of any waterproof material; shoes plus socks. For applicators using open cab air blast equipment in pome fruit, and chemics, a chemical resistant hat is also required.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

When handlers use closed systems or enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- · Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- · Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- · Remove PPE immediately after handling the product. Wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. DO NOT contaminate water when cleaning equipment or disposing of equipment washwater or rinsate. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire label directions before using. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard.40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

REI is 24 hours (1 day) for girdling of table and raisin grapes.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls; chemical-resistant gloves made of any waterproof material; and shoes plus socks.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry, secure location.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container.

[For containers equal to or less than 5 gallons in size:] Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

If pressure rinsing: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Then offer container for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Recycling: Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer or contact the Ag Container Recycling Council (ACRC) at 1-877-952-2272 (toll free) or www.acrecycle.org.

PRODUCT INFORMATION

ARKOS is a broad-spectrum foliar fungicide for control of certain diseases of listed fruits and vegetables. ARKOS belongs to the demethylation inhibitor (DMI) group of fungicides classified as Group 3 and acts as a protectant and eradicant by preventing disease symptoms before and after infection has occurred. Its anti-sportlant activity reduces spores after lesions become visible.

Read the entire label and directions before using ARKOS.

RESISTANCE MANAGEMENT: Populations of fungal pathogens are known to develop resistance to fungicides with the same mode of action when used repeatedly. Thus, Genesis Agri Products Inc. encourages responsible resistance management to ensure an effective long-term control of diseases. Resistance management strategies include alternating and/or tank mixing with other labeled fungicides having different modes of action or limiting the total number of applications per season.

APPLICATION INSTRUCTIONS

Apply ARKOS in sufficient water to ensure complete and thorough coverage of foliage, flowers and fruit.

Optimum application rates are best determined by the user based on disease pressure, weather conditions, varietal susceptibility to specific diseases, and planned timing of applications versus the start of infection periods. In general, use rates in the higher listed rate range for heavy disease pressure, more susceptible varieties, conditions that favor disease development and conditions in which thorough coverage is more difficult.

Consult your State Agricultural Experimental Station or Extension Service Specialist for guidance on selection of specific dosage rates and timing of application appropriate to your specific crop and area conditions. State regulations may contain additional restrictions or requirements.

Do not use less than the specified application rate.

ARKOS can be tank mixed with other fungicides.

ARKOS can be applied with dilute or concentrate ground equipment. Aerial applications for tree fruits can be made in accordance with use directions noted for each crop. Equipment should be frequently checked for calibration.

PRODUCT RESTRICTIONS

Do not allow livestock to graze on treated orchard ground cover. Aerial application of **ARKOS** is allowed unless prohibited under a specific crop use direction. Do not apply this product through any type of irrigation system.

RESISTANCE MANAGEMENT RESTRICTIONS:

Do not make more than two sequential applications of **ARKOS** before alternating to a registered fungicide with a different mode of action. Consult your local or state agricultural authorities for resistance management strategies that are appropriate for your disease management program.

ROTATIONAL CROPS RESTRICTIONS: Do not plant leafy or fruiting vegetables within 30 days after application. Do not plant root and tuber vegetables within 60 days after application. Do not plant cotton, small cereal grains and all other crops not registered on the label for ARKOS, within one year after application.

POME FRUIT (CROP GROUP 11-10)

CROP	DISEASE	RATE FL OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Apples Azarole Crabapple	Powdery Mildew (Podosphaera leucotricha)	8 to 16 (0.25 to 0.5 lb ai)	Initiate spraying at first sign of mildew, usually at the 12" green tip stage.
Loquat Mayhaw Medlar Pear Pear, Asian Quince Quince, Chinese Quince, Japanese Tejocote (including all cultivars, varieties and or hybrids of these)	Scab (Venturia inaequalis) Cedar Apple Rust (Gymnosporangium juniperi-virginianae)	8 to 16 (0.25 to 0.5 lb ai)	Standard Spray Schedule: Initiate spraying at 1/2" green tip stage continue through second cover or until primary scab sporulation is complete. Eradicant Spray Schedule (Post Infection Schedule): Initiate applications within 96 hours of the start of an infection period. Under low to moderate disease pressure conditions, rates in the lower range can be applied within 48 hours after the start of an infection period. Use rates in the higher range when disease pressure is high or if the time interval after the start of infection is greater than 48 hours. For improved scab control, apply ARKOS in combination with a protectant fungicide. After first cover, ARKOS can be used in a standard cover spray program in tank mixes with appropriate protectant fungicides.

RESTRICTIONS:

Do not apply more than a total of 4 applications of ARKOS per crop per year.

Do not apply more than a total of 56 fl oz (1.75 lb ai) of ARKOS per crop per year.

Do not apply less than 14 days apart. Wait at least 21 days between the second and third applications.

Do not apply within 14 days of harvest.

Do not allow livestock to graze on treated orchard ground cover.

When making aerial applications, apply 12 - 16 fl oz ARKOS in a minimum of 10 gallons of water per acre.

Do not apply by air in California.

Ground applications - apply in a minimum of 100 gallons per acre.

BRASSICA LEAFY GREENS (CROP SUBGROUP 5B)

		RATE			
		FL OZ PER ACRE			
CROP	DISEASE	(LB AI/A)	APPLICATION INSTRUCTIONS		
Broccoli raab	Powdery Mildew	6 to 8	Begin application at the first sign of disease.		
Chinese cabbage	(Erysiphe	(0.19 to 0.25 lb ai)	A single repeat application can be made 14 days or more after the first application.		
(bok choy)	polygoni)				
Collards	Black Spot				
Kale	(Alternaria spp.)				
Mizuna	p atomana opp.,				
Mustard spinach					
Rape greens					
Turnip greens					
(Including all cultivars and/or hybrids of these)					
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RESTRICTIONS:

Do not apply more than a total of 2 applications of ARKOS per crop per year.

Do not apply more than a total of 16 fl oz (0.5 lb ai) of ARKOS per crop per year.

Do not apply within 1 day of harvest.

Use a minimum of 10 gallons per acre spray volume for ground applications.

Use a minimum of 2 gallons per acre spray volume for aerial applications.

CHERRIES (SWEET & TART)

		RATE	
		FL OZ PER ACRE	
CROP	DISEASE	(LB AI/A)	APPLICATION INSTRUCTIONS
Cherries (Sweet & Tart)	Powdery Mildew (Podosphaera clandestina)	8 to 16 (0.25 to 0.50 lb ai)	Initiate treatments at early popcorn and continue until terminal growth ceases, timed to maintain coverage on susceptible tissue throughout the possible infection period.
,	Blossom Blight & Fruit Rot (Monilinia spp.)	10 to 16 (0.31 to 0.50 lb ai)	Blossom Blight Control: Apply between early popcorn and petal fall. Complete fungicide coverage must be maintained throughout the bloom period. Fruit Rot Control: Depending on disease pressure, applications can also be directed to the fruit during the cover spray period.
	Leaf Spot (Blumeriella jaapii)	10 to 16 (0.31 to 0.50 lb ai)	Applications made to control powdery mildew will suppress the development of leaf spot. Tank mix with other products registered for leaf spot control for optimum control.
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RESTRICTIONS:

Do not apply more than a total of 4 applications of ARKOS per crop per year.

Do not apply more than a total of 56 fl oz (1.75 lb ai) of ARKOS per crop per year.

Do not apply less than 14 days apart. Wait at least 21 days between the second and third application.

Do not apply within 1 day of harvest.

Do not allow livestock to graze on treated orchard ground cover.

When making aerial applications, apply 12 - 16 fl oz ARKOS in a minimum of 10 gallons of water per acre.

Ground applications – apply in a minimum of 100 gallons per acre.

CUCURBIT VEGETABLES (CROP SUBGROUP 9)

CROP	DISEASE	RATE FL OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Cucumbers Gherkins Gourds Muskmelons (includes true cantaloupe, castaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew	Powdery Mildew (Erysiphe cichoracearum, Podosphaera xanthii)	4 to 8 (0.125 to 0.25 lb ai)	Begin applications at the start of vining or at first indication of disease. Repeat applications can be made at not less than 7-day intervals.
melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon) Pumpkins Squash (summer and winter) Watermelons			

RESTRICTIONS:

If applying to a transplanted crop, do not apply more than a total of 3 applications of ARKOS per crop per year.

If applying to a crop grown from seed, do not apply more than a total of 4 applications of **ARKOS** per crop per year at the 4 – 6 oz per acre rate or 3 applications at the 8 oz per acre rate.

Do not apply more than a total of 24 fl oz (0.75 lb ai) of $\,$ ARKOS per crop per year.

Applications can be made up to and including the day of harvest.

GRAPES, SMALL FRUIT VINE CLIMBING, EXCEPT FUZZY KIWIFRUIT (CROP SUBGROUP 13-07F)

CROP	DISEASE	RATE FL OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Amur River Grape Grape Gooseberry Maypop Schisandra berry (including all cultivars, varieties, and/ or hybrids of these)	Powdery Mildew (Uncinula necator)	4 to 8 (0.125 to 0.25 lb ai)	Start protectant applications before bloom and continue on a 14 to 21-day interval. When disease pressure is high or for the most susceptible varieties, use 6 to 8 fl oz /acre and/or 14-day spray intervals. When disease pressure is low or for least susceptible varieties, use 4 to 6 fl oz/acre and/or 21-day spray intervals. Select spray volume, nozzle adjustments and ground speed to ensure complete coverage of fruit clusters and foliage. Use a minimum of 50 gallons of water per acre for early season applications. Sulfur at specified use rates can be applied before, with, and/or between ARKOS applications. When applied on a powdery mildew spray schedule ARKOS will enhance the activity of registered fungicides used for the control of Botrytis bunch rot. Applications must be made on a 14-day spray schedule for suppression of Botrytis bunch rot.

RESTRICTIONS:

Do not apply more than a total of 4 applications of ARKOS per crop per year.

Do not apply more than a total of 32 fl oz (1.0 lb ai) of ARKOS per crop per year.

Do not apply within 7 days of harvest.

The Restricted Entry Interval (REI) for girdling table and raisin grapes is 24 hours (1-day).

Do not apply by air.

HAZELNUTS (FILBERTS)

CROP DISEASE	FL OZ PER ACRE (LB Al/A)	APPLICATION INSTRUCTIONS
Hazelnuts (Filberts) Eastern Filbert Blight (Anisogramma anomala)	(0.125 to 0.19 lb ai)	Apply at budbreak (when the first green tissue is visible) as a preventative spray. One repeat application can be made no less than 10 days later if weather conditions are conducive to disease development, and to protect the expanding shoot tip during bud break and rapid shoot elongation. ARKOS may be applied as a tank mix or alternated with non-DMI fungicides as a resistance management strategy. Tank mixing the lowest labeled rate of a spray surfactant with ARKOS may improve spray coverage and penetration.

RESTRICTIONS:

Do not apply more than a total of 2 applications of **ARKOS** per crop per year.

Do not apply more than a total of 12 fl oz (0.375 lb ai) of **ARKOS** per crop per year.

Do not apply within 18 days of harvest.

Do not allow livestock to graze on treated orchard ground cover.

Ground applications – apply in a minimum of 100 gallons per acre.

For aerial applications, use only the 6 fl oz/A rate - apply in a minimum of 15 gallons per acre.

HEAD AND STEM BRASSICA (CROP SUBGROUP 5A)

			,
CROP	DISEASE	RATE FL OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Head & Stem Brassicas: Broccoli, Chinese (gai lon) Brussels sprouts Cabbage Cabbage, Chinese (napa) Cauliflower Cavalo broccolo Kohlrabi Mustard, Chinese (gai choy)	Powdery Mildew (Erysiphe polygoni) Black Spot / Alternaria leaf spot (Alternaria spp.)	6 to 8 (0.19 to 0.25 lb ai)	Begin applications at the first indication of disease. A single repeat application can be made no less than 14 days after the first application. Use the higher specified rate when disease pressure is high.

HEAD AND STEM BRASSICA (CROP SUBGROUP 5A) CONTINUED

RESTRICTIONS:

Do not apply more than a total of 2 applications of ARKOS per crop per year.

Do not apply more than a total of 16 fl oz (0.5 lb ai) of ARKOS per crop per year.

Do not apply within 1 day of harvest.

Use a minimum of 10 gallons per acre spray volume for ground applications.

Use a minimum of 2 gallons per acre spray volume for aerial applications.

HOPS

CROP	DISEASE	RATE FL OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Hops	Powdery Mildew	12	Begin applications prior to disease development or at the first indication of the disease.
	(Podosphaera macularis)	(0.375 lb ai)	One repeat application can be made not less than 14 days after the first application.

RESTRICTIONS:

Do not apply more than a total of 2 applications of ARKOS per crop per year.

Do not apply more than a total of 24 fl oz (0.75 lb ai) of ARKOS per crop per year.

Do not apply within 7 days of harvest.

Use a minimum of 50 gallons per acre spray volume for ground applications.

Use a minimum of 10 gallons per acre spray volume for aerial applications.

Do not graze livestock in treated areas, and do not harvest crops grown in treated areas for silage or for hay.

LEAFY GREENS EXCEPT SPINACH (CROP SUBGROUP 4A)

CROP Leafy Greens (except spinach) Amaranth Arugula Chervil Chrysanthemum, edible-leaved & garland Cilantro Corn salad	DISEASE Powdery Mildew (Erysiphe polygoni) Black Spot I Alternaria leaf spot (Alternaria spp.)	RATE FL OZ PER ACRE (LB Al/A) 6 to 8 (0.19 to 0.25 lb ai)	APPLICATION INSTRUCTIONS Begin applications prior to disease development or at the first indication of the disease. A single repeat application can be made no less than 14 days after the first application.
Cress, garden & upland Dandelion Dock Endive Lettuce (head and leaf) Cos (Romaine) Butterhead varieties (both field and greenhouse) Parsley Purslane, garden and winter Radicchio Swiss chard (including all cultivars and/or hybrids of these)	Powdery Mildew (Erysiphe polygoni) Black Spot / Alternaria leaf spot (Alternaria spp.)	6 to 8 (0.19 to 0.25 lb ai)	Begin applications prior to disease development or at the first indication of the disease. A single repeat application can be made no less than 14 days after the first application.

RESTRICTIONS:

Do not apply more than a total of 2 applications of ARKOS per crop per year.

Do not apply more than a total of 16 fl oz (0.5 lb ai) of ARKOS per crop per year.

Applications can be made up to and including day of harvest.

Use a minimum of 10 gallons per acre spray volume for ground applications.

Use a minimum of 2 gallons per acre spray volume for aerial applications.

PAPAYA, AND SPECIFIED TROPICAL FRUIT

CROP	DISEASE	RATE FL OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Canistel	Black Spot	8	Apply prior to disease development or at the first indication of the disease.
Mango	(Asperisporium	(0.25 lb ai)	An approved surfactant may be used to enhance coverage to the foliage.
Papaya	caricae)		
Sapodilla	Powdery Mildew		
Sapote, black Sapote, mammey Star apple	(Oidium caricae)		

RESTRICTIONS:

Do not apply more than a total of 1 application of ARKOS per crop per year.

Do not apply more than a total of 8 fl oz (0.25 lb ai) of **ARKOS** per crop per year.

Application can be made up to and including day of harvest.

Use a minimum of 75 gallons per acre spray volume for ground applications.

Use a minimum of 2 gallons per acre spray volume for aerial applications.

PINEAPPLES

CROP	DISEASE	RATE FL OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Pineapples (pre-plant seed piece) dip treatment	Butt Rot (Chalara paradoxa)	4 to 8 (0.125 to 0.25 lb ai)	Apply only as a pre-plant seed piece dip treatment. Freshly removed seed piece material from the parent plant should be immersed immediately for thorough wetting and coverage. Store treated plant material with butt ends exposed to the sun prior to planting for optimum disease control.

RESTRICTIONS:

Do not use treated green forage or green fodder for animal feed.

STRAWBERRY, LOW-GROWING BERRIES EXCEPT CRANBERRY (CROP SUBGROUP 13-7G)

CROP	DISEASE	RATE FL OZ PER ACRE (LB AI/A)	APPLICATION INSTRUCTIONS
Bearberry Bilbeberry, Iowbush Cloudberry Lingonberry Muntries Partridgeberry Strawberry (including all cultivars, varieties and/or hybrids of these)	Powdery Mildew (Sphaerotheca macularis f. sp. fragariae)	4 to 8 (0.125 to 0.25 lb ai)	Begin applications at first indication of disease. Repeat applications can be made at no less than 14 day intervals while conditions favor disease development. Protection of leaves before bloom will reduce in-season disease pressure and result in greater control of flower and fruit infections. Apply with dilute or concentrate ground equipment or by air. Use higher specified application rates and shorter spray intervals on more susceptible varieties and/or under higher disease pressure.

RESTRICTIONS:

Do not apply more than a total of 4 applications of ARKOS per crop per year.

Do not apply more than a total of 32 fl oz (1.0 lb ai) of ARKOS per crop per year.

Do not apply within 1 day of harvest.

Use a minimum of 75 gallons per acre spray volume for ground applications.

Use a minimum of 2 gallons per acre spray volume for aerial applications.

IMPORTANT NOTICE—To the extent consistent with applicable law, Genesis Agri Products Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to Genesis Agri Products Inc., and to the extent consistent with applicable law, the buyer assumes the risk of any such use.

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