

PYRIMISULFAN GROUP 2 HERBICIDE



Not for sale, distribution or use in Nassau or Suffolk Counties in New York State.

ACTIVE INGREDIENT:
 Pyrimisulfan 1.24%

OTHER INGREDIENTS: 98.76%

TOTAL 100.00%

THIS PRODUCT CONTAINS:
 0.103 lb. Pyrimisulfan per gallon or 1.24%

KEEP OUT OF REACH OF CHILDREN CAUTION



**READ THE ENTIRE LABEL FIRST.
OBSERVE ALL PRECAUTIONS AND
FOLLOW DIRECTIONS CAREFULLY.**

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

First Aid	
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center 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 center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none"> • 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 center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-877-800-5556 for emergency medical treatment information.	

Personal Protective Equipment (PPE)

All mixers, loaders, and applicators and other handlers must wear:

- Chemical resistant gloves made of barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), neoprene rubber (≥ 14 mils), polyvinyl chloride (PVC) (≥ 14 mils), or viton (≥ 14 mils),
- Long-sleeved shirt and long pants, and
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/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 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.

- Removing clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

Do not apply 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 disposing of equipment washwater or rinsate.

Groundwater Advisory: This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Surface Water Advisory: This product has a potential for reaching surface water via runoff after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of pyrimisulfan from runoff water. Runoff of this product will be reduced by avoiding applications when heavy rainfall or irrigation is expected to occur within 48 hours.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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 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.

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 water-proof material,
- shoes plus socks

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow people (or pets) to enter the treated area until spray has dried.

1. Product Description

Arkon Herbicide Liquid is a selective herbicide for post-emergent control of listed broadleaf weeds, sedges, kyllinga, and rush species commonly found in turfgrasses. It can be used on established warm-season turfgrasses (including improved varieties of St. Augustinegrass such as Bitterblue and Floratam) and cool-season turfgrasses. Fall applications provide improved control of winter weeds such as henbit, false dandelion, ground ivy (creeping charlie), and chickweed.

2. Resistance Management

For resistance management, this product contains Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 2 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of this product or other Group 2 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or pest control advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use, and that considers mechanical control methods, cultural (e.g., timing to favor the turf and not the weeds), biological (weed-competitive varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: 1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; 2) a spreading patch of non-controlled plants of a particular weed species; 3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method. Prevent movement of resistant weed seeds to other areas by cleaning equipment.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or pest control advisor for additional pesticide resistance-management and/or integrated weed-management recommendations for specific types of turf and weed biotypes.
- For further information or to report suspected resistance, call 877-800-5556.

3. Spray Preparation And Tank Mixes

Arkon Herbicide Liquid is a stable soluble concentrate (SL) that can be diluted with water or liquid fertilizer to form a stable emulsion. SL formulations are non-flammable and offer good miscibility with water.

Mixing with Water:

Add one-half the required amount of water to the spray tank. Then add Arkon Herbicide Liquid slowly with agitation and complete filling the tank with water. Mix thoroughly and continue agitation while spraying. When this product is left standing for extended periods of time, re-agitate to assure uniformity of the spray mixture.

Do not use tank additives that alter the pH of the spray solution below pH 5 or above pH 8. Buffer the spray solution to alter the pH range as appropriate.

Mixing with Liquid Fertilizers:

Use suitable sources and rates of fertilizer based upon recommendations of your fertilizer supplier or State Extension Service Specialist.

Always verify physical compatibility with a jar test before large scale mixing. The jar test can be conducted by mixing all components in a small container in proportionate quantities. If the mixture separates after standing and can be mixed readily by shaking, then the mixture can be used and applied with spray equipment providing continuous agitation. If large flakes, sludge, gels, or other precipitates form, or if a separate oily layer or oil globules appear, then the herbicide and the liquid fertilizer must not be prepared as a tank mixture.

Liquid fertilizers are either solutions (true fluids) or suspensions. Physical compatibility of this product is adequate with liquid nitrogen solutions. Mixing this product with suspensions or N-P-K solutions may not be satisfactory (may be marginal) without pre-mixing this product with water. Pre-mixing this product with 2 parts water will ensure that the emulsifiers are activated enabling the herbicide to be suspended in the fertilizer.

Adjuvants and spray additives:

Adjuvants (including surfactants, spreaders, spreader-stickers, spray thickeners, foaming agents, activators, detergents, and drift reducing agents) combined with this product can damage the leaf tissue of turfgrass. If any discoloration or cosmetic effects are objectionable or would be unacceptable, then the use of adjuvant(s) would not be recommended. Do not use adjuvants and spray additive tank-mix combinations unless your experience indicates that the tank mixture will not result in objectionable turf injury. Use a non-ionic surfactant at 0.25 percent by volume (1 qt/100 gal) for maximum performance.

Mixing with other pesticides:

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations, and directions for use on all product labels involved tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

4. Ground Equipment

Spray distribution: The accuracy and uniformity of the herbicide distribution is the sole responsibility of the applicator. Power sprayers fitted with a boom or spray wand/gun may be used for broadcast applications and spot treatments. For best spray distribution and coverage, select a spray volume and delivery system that will ensure accurate and uniform coverage of the treated areas and allow proper dispersion and suspension of the product in the spray tank.

- Calibration and proper application are essential when using this product.
- Over-application or rates above those specified on this label can cause turf injury.

Broadcast Ground Application: Boom sprayers equipped with appropriate nozzles, tips, and screens are suitable for broadcast applications. Higher spray volumes (greater than 10 gallons per acre) generally provide better coverage and control, particularly in dense and/or tall foliage.

Low Volume Spray Application Equipment: Apply a minimum of 10 gallons of total spray solution per acre (29 fl.oz./1000 sq.ft.). Uniformly wet leaf surfaces. Higher spray volumes may be required for dense weed infestations, difficult to control weeds, mature weeds, or during adverse/extreme environmental conditions.

Broadcast Applications with Spray Wand/Gun: Using a power or manually (hand) pressured spray wand/gun, apply a spray volume of 20 to 220 gallons per acre (59 fl.oz. to 5 gal per 1000 sq.ft.). Use higher spray volumes for dense weed populations.

Spot Treatment: Hand operated sprayers including backpack sprayers and compression sprayers are appropriate for small turfgrass areas.

Hand-held technique: Wands fitted with flat fan nozzle tips may be used with the appropriate technique. Flat fan nozzles should not be waved in a back-and-forth motion, or in a side-to-side motion, or in a swinging arm motion. These motions result in uneven coverage. Instead, the nozzle should be held stationary at the proper height.

After using this product, clean sprayer with soap or detergent and water, or an approved spray tank cleaner and rinse thoroughly before applying other pesticides.

5. Spray Drift

It is the responsibility of the applicator to avoid spray drift at the application site. Do not allow the herbicide solution to mist, drip, drift, or splash from treated areas onto desirable broadleaf plants, as small amounts of this product can damage sensitive plants near the treated area. If desirable plants are accidentally sprayed, immediately rinsing leaves with water may reduce or eliminate plant damage.

6. Where To Use

This product provides weed control on the following sites.

- **Ornamental Turfgrass sites:**
 - **Residential/domestic sites** including areas associated with household or home life including apartment complexes and condominiums.
 - **Ornamental turf sites** including turfgrass established around residences, parks, streets, retail outlets, cemeteries, industrial and institutional buildings, recreation areas, playgrounds, fairgrounds, and athletic fields.
 - **Institutional sites** including properties or facilities providing a service to public or private organizations including, hospitals, nursing homes, schools, museums, libraries, sport facilities, golf courses (fairways, greens, tees, roughs, and aprons), and office buildings.
 - **Non-cropland sites:** including farmyards, fencerows or fence lines, highway rights-of-way (principal, interstate, county, private, and unpaved roads): Roadsides, roadside ditches, road shoulders, road embankments, dividers, and medians; Industrial sites: Lumberyards, tank farms, fuel or equipment storage areas; Municipal, state, and federal lands: Airports and military installations; railroad rights-of-ways, railroad yards, railroad crossings and railroad bridge abutments; Utility rights-of-way: telephone, pipeline, electrical power-lines, and communication transmission lines.
 - **Agricultural site:** Commercial sod production

Turfgrass Species Which May be Treated:

Arkon Herbicide Liquid may be used on the following established turfgrass species:

- **Established Cool-Season Turfgrass:** Kentucky bluegrass, fine fescues, tall fescue, perennial ryegrass, creeping bentgrass (including tees and greens).
- **Established Warm-Season Turfgrass:** Bermudagrass (common or hybrid), bahiagrass, buffalograss, centipedegrass, kikuyugrass, seashore paspalum, St. Augustinegrass (including improved varieties such as Bitterblue and Floratam), zoysiagrass.

Not all cultivars of bentgrass and hybrid Bermudagrass have been tested for plant injury. For best results, treat a small area at the label rate and observe for plant injury before treating a large area.

Use Restrictions:

- Do not apply more than 2.5 fl.oz. of product per 1000 sq.ft. per year (equivalent to 0.087 lb pyrimisulfan ai per acre).
- Do not retreat within 30 days of initial application.
- For ground application only; aerial application is prohibited.
- Do not apply this product through any type of irrigation system.
- Do not use on carpetgrass, dichondra, legumes, or turfgrass where desirable clovers are present.
- Do not collect grass clippings from treated turfgrass for use as mulch around plants or in compost for 3 weeks after treatment. The applicator must notify in writing the appropriate residences/individuals of this precaution when this product is applied by a lawn service/commercial applicator.
- Do not apply directly to flowers, vegetables, groundcovers, gardens or landscape plantings including ornamental shrubs or trees.

7. Application Directions

How Much to Apply:

Apply 1.2 to 1.7 fl.oz of product per 1000 sq.ft. (3.4 to 4.7 pt. of product per acre). Retreatment after 30 days is allowed but do not apply more than a total of 2.5 fl.oz. per 1000 sq.ft. per year (7 pt. of product per acre per year). For hard to control weeds, consider making 2 applications at the 1.2 fl.oz. per 1000 sq.ft. rate.

When to Apply:

- Apply when weeds are actively growing. Retreatment may be necessary when weed pressures are high, when soil moisture is low, or when weeds are not actively growing.
- To avoid injury to improved varieties of St. Augustinegrass or Centipedegrass, apply when night-time temperatures are above 50°F for 7 consecutive nights.
- For spring applications to Centipedegrass and improved varieties of St. Augustinegrass, delay application until after the second mowing when the lawn is fully green and actively growing.

Application Tips:

- Temperatures below 50°F will reduce weed control activity.
- For best results, delay mowing 1 to 2 days before and after the application of this product.
- For best winter annual control (henbit, false dandelion, chickweed, and purple deadnettle) apply in early fall.
- Intervals between applications and seeding, sodding, sprigging, and plugging:

Turfgrass Species	Seed After Application	Seed Before Application
Kentucky Bluegrass	seed 2 weeks after application	apply product 3 weeks after turf seedling emergence
Fine Fescue, Tall Fescue, Perennial Ryegrass, Creeping Bentgrass*	seed 2 weeks after application	apply product 1 week after turf seedling emergence
Bermudagrass, Zoysiagrass, St. Augustinegrass, Buffalograss, Bahiagrass, Centipedegrass, Kikuyugrass, Seashore Paspalum	seed 3 weeks after application	apply product after first mowing

*Creeping bentgrass seed germination may be delayed by exposure to this product. For best results avoid applications to slopes that drain onto newly seeded bentgrass.

Turfgrass Species	Plant After Application	Plant Before Application
Kentucky Bluegrass	plant 3 weeks after application	apply product 3 weeks after planting
Fine Fescue, Tall Fescue, Perennial Ryegrass, Creeping Bentgrass	plant 3 weeks after application	apply product 2 weeks after planting
Bermudagrass, Zoysiagrass, St. Augustinegrass	plant immediately after application	apply product after first mowing
Buffalograss, Bahiagrass, Centipedegrass, Kikuyugrass, Seashore Paspalum	plant 3 weeks after application	apply product after first mowing

8. Weeds Controlled

Arkon Herbicide Liquid will control the following weeds:

Sedges, Kyllinga, and Rushes (including ALS resistant annual sedges)		
Annual Kyllinga Annual Nutsedge Cockscomb Kyllinga	False Green Kyllinga Green Kyllinga Path Rush	Purple Nutsedge Yellow Nutsedge
Broadleaf Weeds		
Buckhorn Plantain Common Chickweed Dollarweed (Pennywort) False Dandelion Florida Betony	Ground Ivy (Creeping Charlie) Hairy Bittercress Henbit Lawn Burweed	Purple Deadnettle Rough Fleabane Virginia Buttonweed Wild Garlic Wild Onion

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in a locked storage area inaccessible to children and domestic animals.

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

For Plastic Containers – Nonrefillable with capacities equal to or less than 5 gallons:

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

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.

Pressure rinse as follows: 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.

For Plastic Containers – Nonrefillable with capacities greater than 5 gallons:

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

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STORAGE AND DISPOSAL (cont.)

Pressure rinse as follows: 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.

LIMITED WARRANTY AND DISCLAIMER

IMPORTANT: Read this LIMITED WARRANTY AND DISCLAIMER before buying or using this product. By opening and using this product, buyer and all users agree to accept the terms of this LIMITED WARRANTY AND DISCLAIMER in their entirety and without exception. If the terms are not acceptable, return this product unopened immediately to the point of purchase, and the purchase price will be refunded in full.

It is impossible to eliminate all risks inherently associated with use of this product. Damage to the treated article, ineffectiveness, or other unintended consequences can result from use of the product under abnormal conditions such as weather, presence of other materials, or the manner or use of application, etc. Such factors and conditions are beyond the control of the manufacturer, and **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BY PURCHASING AND USING THIS PRODUCT THE BUYER AND ALL USERS OF THIS PRODUCT AGREE TO ACCEPT ALL SUCH RISKS.** To the extent consistent with applicable law, buyer and all users further agree to assume all risks of loss or damage from the use of the product in any manner that is not explicitly set forth in or that is inconsistent with label instructions, warnings and cautions.

The manufacturer warrants only that this product conforms to the chemical description given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use, subject to the inherent risks described below. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY EXPRESSLY DISCLAIMED.**

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