

Nutrients PLUS® Fertilizer with 0.37% Cavalcade™ **16-2-3**

For selective preemergence control of grass and broadleaf weeds in:

- established turf grasses (excluding golf course putting greens) and lawns
- landscape ornamentals (including established perennials and wildflower plantings

Active Ingredient:

Prodiamine [N3,N3-Di- <u>n</u> -propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine0.379	6
Inert Ingredients: 99.639	6
Total:	6

KEEP OUT OF REACH OF CHILDREN CAUTION

See the following section, Precautionary Statements, Hazards to Humans and Domestic Animals for additional information.

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

CAUTION: Causes moderate eye injury (eye irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin conact while handling the material may cause allergic reactions in some individuals.

Environmental Hazards

This product has low solubility in water. At the limits of solubility, this product is not toxic to fish. However, at concentrations above the level of water solubility, it may be toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours willI help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

FIRST AID

If Swallowed: 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:

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or

doctor for treatment advice

If on Skin or Clothing:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20

minutes. Call a poison control center or doctor for treatment advice.

If Inhalad Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for

treatment advice.

Have the container or producct label with you when calling a poison control center or doctor, or going for treatment. You may also call 1-800-858-7378 for emergency medical treatment advice.

Distributed & Guaranteed by

Nutrients PLUS, LLC • 2133 Upton Dr, Ste 126-509 • VA Beach, VA 23454 (888) 675-7515 www.nutrientsplus.com

NET WT 50 lb (22.7 kg)

EPA Reg. No. 60063-28-82898 EPA Est. No. 075527-PA-12_A; 047956-PA-001_B Subscript corresponds to 1st digit in lot no. Cavalcade is a trademark of Sipcam Agro USA, Inc.



GUARANTEED ANALYSIS

Total Nitrogen (N)	10.00%
2.50% Ammoniacal Nitrogen	
9.50% Urea Nitrogen†	
1.60% Other Water Soluble Nitrogen	
2.40% Water Insoluble Nitrogen*	
Available Phosphate (P2O5)	2.00%
Soluble Potash (K ₂ O)	3.00%
Calcium (Ca)	2.00%
Sulfur (S)	3.00%
3.00% Combined Sulfur (S)	
Iron (Fe)	1.00%

Derived from poultry manure, biosolids, ammonium sulfate, urea, sulfur coated urea, ammonium phosphate,

*2.40% slowly available water insoluble nitrogen from poultry manure and biosolids.

†6.00% slowly available urea nitrogen from sulfur coated urea.

ESTABLISHED TURF:

Information concerning the raw materials composing this product can be obtained by writing to the Guarantor listed on this label, and referring to the batch number found on this container.

Information regarding the contents and levels of metals in this product is available on the internet at http://www.aapfco.org/metals.htm

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This product is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in:

- established turf grasses (excluding golf course putting greens) and lawns
- · landscape ornamentals (including established perennials and wildflower plantings)

This product controls susceptible weeds by inhibiting weed seed germination and root development. Most effective weed control will be obtained when it is activated by at least ½ inch of rainfall, irrigation, or shallow (1-2 inches) incorporation, prior to weed seed germination and within 14 days following application.

Not for use on plants being grown for (1) sale or other commercial use, (2) commercial seed production, or (3) research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns and grounds. Do not graze or feed livestock forage cut from areas treated with this product. Do not apply aerially. Do not apply to golf course putting greens. Do not apply this product through any type of irrigation system

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

WEEDS CONTROLLED

When used in accordance with this label, this product will provide control of the following weeds.

Barnyardgrass	Henbit	Pigweed
Bluegrass, Annual	Itchgrass	Purslane, common
(Poa annua)	Johnsongrass	Pusley, Florida
Carpetweed	(from seed)	Rescuegrass (3)
Chickweed, common	Junglerice	Shepherd's purse (2
Chickweed, mouse ear	Knotweed	Signalgrass, Broadle
Crabgrass (large,smooth)	Kochia	Speedwell, Persian
Crowfootgrass	Lambsquarter, common	Sprangletop
Cupgrass, Woolly	Lovegrass	Spurge, prostrate
Foxtails, Annual	Panicum (Texas,	Witchgrass
Goosegrass (1)	Fall, Browntop)	Woodsorrel, yellow (from seed)

(1) In many areas a single application of 0.65lb. to 1.5 lb. active ingredient per acre (equal to 176 lbs. to 405lbs. of this product per acre) will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season. most effective weed control may be obtained by making an initial application of 0.65lb. to 1.0 lb. a.i. per acre (equal to 176 bs. to 270 lbs. of this product per acre)followed after 60 to 90 days by a second application at doses that would not exceed those give in the Maximum Annual Rates Table. Do not exceed the maximum rate for turf grass species listed in the Maximum Annual Rates Table on this label.

(2) Application for this weed should be made in late summer, fall, or winter prior to germination.

(3) Suppression only. Sequential application may be made so long as the total amount of product applied does not exceed the maximum annual application rates recommended for each turf species. All applications must be made prior to germination of the weed seeds.

APPLICATION DIRECTIONS

Apply uniformly with suitable, calibrated application equipment.

This product is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turf grass and lawns. The maximum amount of material that may be applied per year is given for each turf grass species in the Maximum Annual Rates section of this label. Most effective weed control in turf grasses will be obtained when this product is activated by at least ½ inch of rainfall or irrigation prior to weed seed germination and within 14 days following application. See map below for approximate crabgrass seed germination dates.

CRABGRASS SEED **GERMINATION DATES**

Approximate Dates

After May 30 After May 10 After April 20 After March 20 Jan. 1 to Mar. 20



USE PRECAUTIONS: The following precautions apply to the use of this product in turf grasses and lawns: (1) Application of this product may thin emerged annual bluegrass and newly overseeded grasses. (2) Do not apply to overseeded turf within 60 days after seeding or until after the second mowing whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil. (3) Do not cut (harvest) treated sod before 120 days after application. Do not apply to newly set sod until the following year. (4) Application to turf stressed by drought, low fertility, or pest damage may result in turf injury. (5) Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control. (6) Do not apply this product to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (Poa annua) are desirable species.

RATES OF APPLICATION

This product may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications must be made prior to germination of the target weeds. It will not control established weeds. Maximum use rate selection should be based on turf species. The length of time of residual weed control provided by this product is related to the rate applied.

MAXIMUM ANNUAL RATES

This product is recommended for use on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table:

Maximum Application Rate/Calendar Year of Product by Turf Grass Species (1)				
Turf Species	Lbs. Product/Acre	Lbs. a.i./Acre		
Bermudagrass (2) Bahiagrass Centipedegrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type) Zoysia	405	1.5		
Buffalograss Kentucky Bluegrass Perennial Ryegrass	270	1.0		
Creeping Red Fescue	203	0.75		
Creeping Bentgrass	176	0.65		

- (1) These are the maximum rates per calendar year by species limitations.
- (2) May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 0.5 lbs. a.i. (equal to 135 lbs./A of this product). Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging
- Do not apply more than 1.5 lbs. a.i. (equal to 405 lbs. of this product) per calendar year per acre.
- · Use the higher rates of this product to achieve higher levels of fertility and longer periods of weed control for each turf type, but do not exceed the maximum application rates as specified in the Maximum Annual Rates

WHEN TO APPLY AFTER OVERSEEDING TURF

Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.

WHEN TO OVERSEED AFTER APPLICATION

This product will inhibit the germination of turf species if overseeded too soon after application. Follow rates and intervals in the table below for best overseeding/reseeding results

Fertilizer with 0.37%		Months Before Overseeding		
Cavalcade Rate Lbs/A	a.i./A	North	Transition	South
135	0.50	4	4	4
176	0.65	5	4	4
203	0.75	6	5	5
216	0.80	-	6	6
270	1.00	-	7	7
308	1.14	-	-	9
351	1.30	-	-	10
405	1.50	-	-	12

LANDSCAPE ORNAMENTALS

Including Established Perennials and Wildflower Plantings

This product may be applied for residual preemergence weed control in ornamentals.

Use Rates & When to Apply

Apply in fall and/or spring, 0.65 to 1.5 lbs active ingredient per acre, which is equal to 176 to 405 lbs. of this product per acre (4 to 9.3 lbs per 1.000 sq. ft.) of ornamental plantings; therefore, 20 lbs of this product will treat 2,150 to 5,000 sq. ft. Use higher rates of application for longer control periods. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rate of 1.5 lbs. a.i. per acre.

Established Landscape Ornamentals

This product may be applied to established ornamentals as a broadcast, over the top, or directed application. Irrigation or rainfall soon after application will wash residues off plant foliage and activate it into the soil.

Newly Transplanted Landscape Ornamentals

This product may be applied to newly transplanted ornamentals as a broadcast, over the top, or directed application. Delay application to allow soil to settle around new transplants and water thoroughly before applying this product. Apply after cuttings form roots and become established. Apply before budding/grafting or after buds/grafts have taken to avoid any inhibition of the tissue union.

Tolerant Ornamental Species

This product will not harm most trees, shrubs, vines and flowers. The species listed below are tolerant to this product. Best results will be obtained when it is uniformly applied to the soil surface; avoid applying to ornamental shoots which may defeat the effort to get uniform distribution on the soil surface. This product may be applied over the top of these species. When plants are under stress (such as heat, drought or frost damage) some cultivars of listed plants may be sensitive to this product.

STORAGE & DISPOSAL

STORAGE: Store this product in its original container in a dry, cool secured area. Do not contaminate water, foodstuffs, feed, or seed by storage or disposal,

PRODUCT DISPOSAL: As a responsible environmental practice, where possible, it is recommended that all of the contents of this bag be used, carefully following label directions and precautions. IF EMPTY: Do not reuse this bag. Place in trash or offer for recycling if available. IF PARTLY FILLED: Call your local waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

SPILL: In case of spill, sweep up and dispose of material according to Product disposal directions above.

CONDITIONS OF SALE & WARRANTY

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Nutrients PLUS®, LLC or the Seller. All such risks shall be assumed by the Buyer.

Nutrients PLUS®. LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. Nutrients PLUS®, LLC makes no other express or implied Warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Nutrients PLUS®, LLC or the Seller be liable for consequential, special, or indirect damages resulting from use or handling of this Product, Nutrients PLUS®, LLC and the Seller offer this product, and the Buyer and User accept it. subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing by a duly authorized representative of Nutrients PLUS®, LLC.

TOLERANT ORNAMENTAL SPECIES:

Scientific Name

Helianthemum sp.

Hibiscus rosa-sinensis

Hosta plantaginea

Hemerocallis sp.

Hedera helix

Hibiscus

Hibiscus sp.

Common Name

English Ivy

Common Name Abelia: Sherwood Japanese maple Norway maple Yarrow (King Edward) Lilv-of-the-Nile: African lilv Five-leaf or Chocolate vine Lady's leek or Nodding onion Japanese anemone Columbine (Red and gold) Vine Hill manzanita Cape weed Wormwood (Silver mound: Castle) Aster (Bonny Blue, Purple dome) Lady fern Japanese Aucuba Fibrous begonia (Hardy Grandis) Barberry Wintergreen barberry Mentor barbern Japanese barberry Warty barberry Snowbank Bougainvillea Butterfly-bush (Dwarf Blue, Royal Red) Japanese boxwood Weeping bottlebrush Scotch heather Tussock bellflower (White Clips) Trumpet creeper, Trumpet flower (Madame Gaten) Hottentot fig; Ice plant Feathery Cassia Wild Lilac False Cypress Cleyera Citrus species' Coreopsis; Calliopsis (Early sunrise, Moonbeam' Flowering dogwood American dogwood Pampas grass Cranberry cotoneaster Cotoneaste Bearberry cotoneaster Rockspray cotoneaster Hawthorne Lucifer Italian cypress White trailing ice plant Larkspur (Blue elf) Maiden pinks (Zing) Cheddar pinks Hop bush Coneflower, purple (Magnus) Silverberry Wintercreepe Japanese spindle tree; Evergreen euonymus Spreading euonymus Japanese aralia Border forsythia Weeping forsythia Greenstem forsythia

Blanket flower (Goblin)

Centian

Cranesbill

Baby's breath

Gladiolus

Gardenia, Cape-jasmine

Scientific Name Abies spp. Abelia grandiflora Acer palmatum Acer platanoides Achillea, sp. Actinidia chinensis Agapanthus africanus Agapanthus orientalis Allium cernuum Anemone hybrida Aquilegia spp. Arctostaphylos densiflora Arctotheca calendula Artemesia sp. Aster sp. Aster X Frikartii Athrium Filiz-femina Aucuba japonica Begonia sp. Berberis gladwynesis Berberis julianae Rerheris mentorensis Berberis thunbergii Rerheris verruculosa Bergenia cordifolia Boltonia asteroids Bougainvillea spp. Buddleia davidii Buxus microphylla Callistemon viminalis Calluna vulgaris Campanula carpatica Campis X Tagliabuana Carpobrotus edulis Cassia artemisoides Ceanothus rigidus Ceratostigma plumbagonoides Chamaecyparis pisifera Chrysanthemum nipponicum Cleyera japonica Citrus spp.* Coreopsis sp. Cornus florida Cornus stolonifero Cortaderia selloana Cotoneaster apiculatus Cotoneaster buxifolius Cotoneaster dammeri Cotoneaster microphyllus Cretaegus spp. Crocosmia sp. Cupressus sempervirens Delosperma alba Delphinium sp. Dianthus deltoids Dianthus gratianopolitanus Dodonea viscose Echinacea purpurea Elaeagnus pungens Euonymus fortunei Fuonymus japonica Euonymus kiautschovica Fatsia japonica Forsythia intermedia Forsythia suspensa Forsythia viridissima Gaillardia sp. Gardenia jasminoides Gentiana dahurica Geranium cinereum

Gladiolus spp.**

Gypsophila repens

Sunrose Daylily (Aztec gold, Stella d'Oro, Tender love) Rose of Sharon** Mallow (Disco belle white) Chinese hibiscus** Hosta, Plantain lilv Hosta (Searsucker) Bigleaf hydrangea Chinese holly* Japanese holly American holly Holly Yaupon holly Sword-leaved Iris (Jodelsong) Siberian iris (Cabernet) Winter iasmine Chinese juniper (Nick's compact) Shore juniper (Blue Pacific) Juniper Creeping Juniper Walnut* Shrimp plant Crape myrtle Weeping lantana Lavender (Munstead) Edelweiss Amur privet Japanese privet Glossy privet (Waxleaf) Chinese privet (Variegata) Lily (Jazz) Liriope (Big blue, Lillyturf, Silver mound: Evergreen giant) Liriope, variegated Liriope, creeping Cardinal flower Japanese honeysuckle Tatarian honeysuckle Burgundy Loosestrife (Modern Pink) Magnolia* Ice plant Crabapple³ Yaku jima, Silberfeder Heavenly bamboo Narcissus* Oleander Olive* Mondo Grass** Osmanthus; False holly (Gulf tide) Trailing African Daisy Sourwood Avocado* Frasier's photinia; Redtip False dragonhead (Vivid) Spruce species** (Colorado, blue, Norway, etc.) Lily-of-the-Valley shrub Calabrian pine Canary Island pine Slash pine Aleppo pine Austrian black pine Longleaf pine Monterey pine Eastern white pine Scotch pine Loblolly pine Japanese black pine

Virginia pine

Hosta Sieboldiana Houttuvnia cordata var variegata Hydrangea macrophylla Ilex cornuta* Ilex crenata Ilex opaca Ilex pernyi Ilex vomitoria Inula ensifolia Iris ensata Iris siberica Iris spp.** Jasminium nudiflorum Juniperus chinesis Juniperus conferta Juniperus davurica Juniperis horizontalis Juglans sp. Justicia brandegeana Lagerstroemia indica Lantana montevidensis Lavender sp. Leontopodium alpinum Lioustrum amurense Ligustrum japonicum Lioustrum lucidum Ligustrum sinense Lillum sp. Liriope muscari Liriope Muscari var . variegata Liriope spicata Lobelia Cardinalis Lonicera japonica Lonicera tatarica Loropetalum chinense Lythrum sp Magnolia spp.** Maleophora luteola Malus sp.* Miscanthus sinensis Nandina domestica Narcissus spp.** Nerium oleander Olea europaea* Ophiopogon japonicus** Osmanthus heterphyllu: Osteospermum fruticosum Oxydendrum luteum Persea americana Photinia fraseri Physostegia Viginiana Picea spp.** Pieris iaponica Pinus brutia Pinus canariensis Pinus elliottii Pinus halenensi Pinus nigra Pinus palustrus Pinus radiata Pinus strobus Pinus sylvestris Pinus taeda Pinus thunbergiana Pinus virginiana

Common Name Pistachio* Queensland pittosporum Japanese pittosporum Japanese yew Red oak Yew Tulip Grape*

English laurel Prunus laurocerasus Almond, Apricot, Nectarine, Peach, Prunus sp.* Plum & Prune* Douglas fir** Pseudotsuga menziesii** Firethorn . scarlet Pyracantha coccinea Firethorn Pyracantha fortuneana Firethorn Pyracantha koidzumii Bradford Pear Pyrus sp Ouercus rubra Shumard oak Quercus shumardii Indian hawthorne Raphiolepis indica Rhododendron & Azalea (Coral Bells. Rhododendron Delaware valley white, Flame creeper, (including Azalea) George L. Tabor, PJM, Roseum Elegans, Formosa, Hino-crimson, Wakaebisu, Gumpo) Lady Bank's Rose Rosa banksiae* Rosmarinus of ficinalis* Rosemary* Black-Eved Susan Rudbeckia sp. Rumohra adjantiformis Leatherleaf Fern Santolina, virens Goldstrum Santolina Saxifraga sp. Saxifrage: Purple dome Stonecrop Sedum album Stonecrop, likadense Sedum cauticola Sedum dasyphyllum Stonecron Syzygium paniculatum Japanese boxcherry Japanese yew Taxus cuspidata Taxus media Germander Teucrium sp. Meadow rue Thalictrum dipterocarpum American arborvitae Thuia occidentalis Trachelospermum asiatum Star Jasmine Tsuga canadensis Canada hemlock Tulipa spp. Viburnum japonicum Japanese viburnum Viburnum odoratissimum Sweet viburnum Viburnum plicatum Japanese snowball Viburnum rigidum Canary Island viburnum Laurustinus Viburnum tinus Viburnum trilobium Cranberry Bush Leatherleaf Viburnum Viburnum wrighti Greater periwinkle, Vinca Vinca major Common periwinkle Vinca minor Vitis sp.* Old fashioned Weigela Weigela florida Yucca aloifolia Spanish bayonet Yucca filamentosa Yucca. Adam's needle *Do not use on food producing trees, vines, or plants.

Scientific Name

Pittosporum tobira

Pittosporum rhombifolium

Podocarpus macrophyllus

Pistacia sp.*

^{**}Not for use on container grown plants.