



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 3, 2019

Jennifer Hughes  
Regulatory Manager  
Dow AgroSciences, LLC  
9330 Zionsville Rd., 308/2E  
Indianapolis, IN 46268-1054

Subject: Notification per PRN 98-10 – Remove Weed Resistance Management Section from Residential Sublabel B  
Product Name: Penoxsulam 2 FERT  
EPA Registration Number: 62719-589  
Application Date: November 7, 2018  
Decision Number: 550567

Dear Ms. Hughes:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, please contact me at [ondish.mindy@epa.gov](mailto:ondish.mindy@epa.gov) or at (703)605-0723.

Sincerely,

A handwritten signature in cursive script that reads "Mindy Ondish".

Mindy Ondish  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

62719-589

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

05/03/2019

**[Sub Label A: Professional Uses]**

(Base label):

<b>2,4-D</b>	<b>GROUP</b>	<b>4</b>	<b>HERBICIDE</b>
<b>PENOXsulAM</b>	<b>GROUP</b>	<b>2</b>	<b>HERBICIDE</b>

**Penoxsulam 2 FERT**

**HERBICIDE**

**For postemergence control of annual and perennial broadleaf weeds in established turfgrass, including residential lawns, golf courses, parks, sports fields, sod farms and around commercial buildings and other recreational and commercial turfgrass areas**

**[XX lbs] Covers up to XX,000 sq ft (XXX' x XX')**  
and/or

**This bag covers XX,000 sq ft**

<b>2,4-D</b>	<b>GROUP</b>	<b>4</b>	<b>HERBICIDE</b>
<b>PENOXsulAM</b>	<b>GROUP</b>	<b>2</b>	<b>HERBICIDE</b>

Active Ingredients:

2,4-dichlorophenoxyacetic acid.....1.04%  
penoxsulam: 2-(2,2-difluoroethoxy)-N-(5,8-dimethoxy[1,2,4] triazol[1,5c]pyrimidin-2-yl)-6-(trifluoromethyl)benzenesulfonamide .....0.01%

Other Ingredients.....98.95%  
Total .....100.00%

Acid equivalent: 2,4-D acid – 0.86% - 17.2 lb/ton

**[Editor's note: Bag size provided by supplemental distributor.]**

**[Editor's note: Supplemental distributor will add fertilizer analysis and derivation statement for fertilizer carrier used.]**

**Guaranteed Fertilizer Analysis: XX-XX-XX †**

Total Nitrogen (N)..... XX%  
 XX% Ammoniacal Nitrogen  
 XX% Nitrate Nitrogen  
 XX% Water-Insoluble Nitrogen\*  
 XX% Urea Nitrogen\*\*  
 XX% Slowly available water soluble Nitrogen.  
 XX% Other Water Soluble Nitrogen  
 Available Phosphate (P<sub>2</sub>O<sub>5</sub>)\*\*\* ..... XX%  
 Soluble Potash (K<sub>2</sub>O)..... XX%  
 Calcium (Ca) ..... XX%  
 Magnesium (Mg) ..... XX%  
 XX% Water Soluble Magnesium (Mg)  
 Sulfur\*\*\*\*

XX% Combined Sulfur (S)  
 Boron (B) ..... XX%  
 Chlorine (Cl) [Max, Not more than] ..... XX%  
 Cobalt (Co)..... XX%  
 Copper (Cu)..... XX%  
 Iron (Fe)..... XX%  
 XX% Chelated Iron (Fe)  
 XX% Water Soluble Iron (Fe) Manganese (Mn)XX%  
 Water Soluble Manganese (Mn) ..... XX%  
 Molybdenum (Mo) ..... XX%  
 Nickel (Ni)..... XX%  
 Sodium (Na)..... XX%  
 Zinc (Zn)..... XX%  
 XX% Chelated Zinc (Zn)

\*[XX]% Water insoluble nitrogen from biosolids.

\*\*[XX]% coated slow release Nitrogen (N)

\*\*[XX]% Slowly available [urea] nitrogen from [polycoated] [polymer/sulfur] coated urea

\*\*[XX]% Slowly available water soluble nitrogen

\*\*[XX]% Slowly available nitrogen from methylene ureas

\*\*[XX]% Slowly available nitrogen from ureaform

\*\*[XX]% Slowly available nitrogen from BioSolids

\*\*[XX]% Stabilized urea nitrogen [or [urea] nitrogen stabilized] with [dicyandiamide] and N-(n-butyl) thiophosphoric triamide

\*\*\*\*[XX]% Free Sulfur (S)

Derived From: [XX]<sup>†</sup>

Primary plant foods derived from: [XX]<sup>†</sup>

Secondary plant foods derived from [XX]<sup>†</sup>

Iron derived from: [XX]<sup>†</sup>

Density – XX lb./cu.ft.

**[Editor's Note: the following information may be added in the boxes above, this footnote must be deleted from the label after completion of the above Fertilizer Analysis data]**

<sup>†</sup> Urea, methylene urea, sulfur coated urea, polymer coated urea, poly[mer] coated sulfur coated urea, urea formaldehyde, Ureaform, ammonium sulfate, corn gluten, bio-solids (Milorganite, Nutri-Pel, composted poultry manure), activated sewage sludge, diammonium phosphate, monoammonium phosphate, magnesium ammonium phosphate hexa-hydrate, triple super phosphate, ammoniated phosphates, sulfate of potash, muriate of potash, sulfate of potash-magnesia, potassium nitrate, copper oxide, copper sulfate, iron/ferric oxide, iron/ferrous sucrate, iron/ferrous oxy-sulfate, iron/ferrous sulfate, manganese oxide, molybdic oxide, manganese sulfate, manganese sucrate, zinc oxide, zinc sulfate, sodium borate, boron, sulfur, sodium molybdate, stabilized nitrogen, potassium magnesium sulfate, ferrous sulfate monohydrate, magnesium sulfate or limestone.

**Keep Out of Reach of Children**

**CAUTION**

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### Precautionary Statements

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#### Hazards to Humans and Domestic Animals

**Harmful If Absorbed Through Skin, If Inhaled, Or If Swallowed • Causes Moderate Eye Irritation**

**Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wear protective eyewear, long-sleeved shirt, long pants, socks, shoes, and waterproof gloves. Wash hands thoroughly with**

**soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.**

### **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 center or doctor 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 mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**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 15-20 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 contact 1-800-992-5994 [or 1-800-XXX-XXXX] for emergency medical treatment information.

### **[Optional Label Claims]**

**Controls [tough] weeds [such as clover] [dandelion] [dollarweed] [henbit] [ground ivy] [plantain] [chickweed] [sedges] [Florida betony] [lespedeza] [knotweed]**

**Effective weed control leads to greener, thicker lawns**

**Apply [anytime] when weeds are actively growing [Note: Must match use directions and timing on label and cannot conflict with any restrictions]**

**Feeds [and strengthens] root systems without burning your lawn**

**Kills weeds [and fertilizes the lawn]**

**For use on cool and warm season turfgrass**

**Can be applied to newly established warm season grass**

**Can be used on newly planted grass**

**Contains LockUp Specialty Herbicide Weed Control**

**Phosphorus-Free (Approved for use ONLY on Phosphorus-Free Fertilizer/Carrier blends)**

**Phosphorus [Phosphate] free [formula] (Approved for use ONLY on Phosphorus-Free Fertilizer/Carrier blends)**

**Zero Phosphorus (Approved for use ONLY on Phosphorus-Free Fertilizer/Carrier blends)**

**Feeds [X,XXX] sq ft**

**This Bag Treats Up To\_\_\_\_\_ Square Feet**

**Contains Time-Released Nitrogen for Extended Feeding**

**Improves nutrient deficient lawns**

**Long-lasting Feeding**

**Premium Granular Fertilizer - Providing the Nutrients Needed for Beautiful Healthy Lawn/Turfgrass.**

**Controlled [Slow] release nitrogen for extended feeding**

**CONTROLLED-RELEASE FERTILIZER**

**ENGINEERED FOR PERFORMANCE**

**Contains Iron for deep greening**

**Iron enriched [formula]**

**Deep greening [formula]**

**Rich Green Lawn/Turfgrass**

**Slow release nitrogen feeds your lawn over [x] months. [Note: The "x" represents the amount of months the fertilizer feeds depending on what we use (i.e. methylene urea, PCSCU)]**

**Contains Non-Burning, Slow-Release Nitrogen and Iron for Deep Greening.**

**Contains Non-Burning Nitrogen**

**Contains Slow-Release Nitrogen**

**Contains SCU [Sulfur Coated Urea]**

**Note: Supplemental applications of fertilizer are needed to achieve a minimum 1 lb Nitrogen per 1,000 sq. ft.**

**Maximize your lawn**

**Fortified with Milorganite [logo/graphic] Need to move logo outside of label text (above product name, on side of label or below text)]**

**Controlled Release [Fertilizer] Technology feeds [lawn] for 2+ months**

**Promotes Thick Green Growth and Controls over [1, 2, 3, ...47] weed types including [dandelion, dollarweed, clover, ...or insert any weed found in the approved weed list]**

**Kills Dollarweed & Over [1, 2, 3, ...47] Other Weed Types! As listed**

**Kills Dollarweed & [1, 2, 3, ...47] other major lawn weeds as listed**

**Kills tough listed weeds like [dandelion, dollarweed, clover, ...or insert any weed found in the approved weed list]**

**[Just] One application kills tough listed weeds like [dandelion, dollarweed, clover, ...or insert any weed found in the approved weed list]**

**Apply in the fall to kill reoccurring [dandelion, dollarweed, clover, ...or insert any weed found in the approved weed list]**

**[Swiss Farms Guarantee] [When you chose Swiss Farms products, you can be assured of high quality and performance in your lawn [and garden]. If for any reason you are not completely satisfied with this product, we will refund your money. Please send proof of purchase and original register receipt to our address. We will promptly send you a refund check.**

**[The Scotts Company Guarantee] Money Back Guarantee\* - [Money Back Guarantee] \*If for any reason you, the consumer/customer, are not satisfied after using this product, you are entitled to get your money back. Simply send us proof of purchase and we will mail you a refund check promptly.**

**Stein Policy - 100% Satisfaction Guaranteed - If for any reason you are not satisfied with the results after using this premium product, you are entitled to replacement bags of fertilizer or your money back. Simply bring proof of purchase to any Stein Garden Center. [EC Grow Private Labels Only]**

**If, after using this product, you are dissatisfied with the results, simply mail the sales receipt, a brief description of the problem and your contact information to the address listed below for a refund of the purchase price of the product. EC Grow • PO Box 837 • Eau Claire, WI 54702 [EC Grow Private Labels Only]**

**If you have questions or comments regarding the quality of this product, please write to Turf Care Supply Corp. at the address below, or call Customer Service at 877-220-1014 [1306] between the hours of 9 A.M. and 5 P.M., Eastern Time, Monday through Friday. Please refer to the item number found on this bag when writing or calling. [Turf Care Supply Private Labels Only]**

**Join the Home Depot Garden Club – For more great tips and offers.**

**Note to PM: Vigoro products are exclusively sold at Home Depot and the Garden Club Claim will only be used on Vigoro branded products**

**Superscript used is first letter of run code on end of container**

**[Swiss Farms] Promise Satisfaction Guaranteed] / [The [Swiss Farms] Promise is in Every Bag]**

**[The [Swiss Farms] Promise] If this product, when used for its intended purpose, fails to give you complete satisfaction, return the item to the [Swiss Farms Retail] store where purchased for free replacement of the same or similar item.**

**[Formulated] for centipede/St. Augustine lawns (or)**

**[Formulated] for Centipede & St. Augustine lawns**

**Use on [bentgrass, Kentucky bluegrass, bermudagrass, or insert any grass type found in the Established Cool Season Turfgrass and / or Established Warm Season Turfgrass lists found in Directions for Use] lawns**

**Premium Turf Grade/Mini Fairway Grade: Size Guide Number SGN XXX [The text box may have any combination of SGNs listed within the box, 80, 100, 145, 150, 195, 200, 210, 220, 230]**

**Duration XXX – Average nutrient release XXX days [The text box below may have any combination of the % Durations listed within the box. Duration 180 – Duration 120 – Duration 90 – Duration 45]**

**Made in USA [Note: All inert materials must be produced in the US, and formulation must be manufactured in the US to use this claim.]**

**Formulated for Wisconsin**

**Information regarding the contents and levels of metals in this product is available on the Internet at:**

- **California Regulatory Site: <https://apps1.cdfa.ca.gov/FertilizerProducts/>**
- **Oregon Regulatory Site: [http://oda.state.or.us/dbs/heavy\\_metal/search.lasso](http://oda.state.or.us/dbs/heavy_metal/search.lasso)**
- **Washington Regulatory Site: <http://agr.wa.gov/> or <http://agr.wa.gov/PestFert/Fertilizers/ProductDatabase.aspx>**
- **<http://www.aapfco.org/metals.html>**
- **<http://www.regulatory-info-sc.com>**

**It is a violation of law in Maryland and New Jersey to apply this product to turf at a rate that results in greater than 0.7 lb per 1,000 sq. ft. of readily available nitrogen or more than 0.9 lb per 1,000 sq. ft. of total nitrogen with a least 20% of which shall consist of slow release nitrogen per application. Additional restrictions apply to total nitrogen applied to turf per season. Other state and local restrictions may apply. [Maryland or New Jersey Applications]**

**No more than 0.7 lb per 1,000 sq. ft. of readily available nitrogen during any given 30 day period. No more than 0.9 lb (cool season grasses) or 1.0 lb (warm season grasses) per 1,000 sq. ft. of total nitrogen with a least 20% of which shall consist of slow release nitrogen during any given 30 day period. [Virginia Applications]**

**Do not apply near water storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn, and sweep any product that lands on the driveway, sidewalk, or street back onto your lawn and garden. [Maryland Applications]**

**It is a violation of law in Maryland, New Hampshire, and New Jersey to apply this product to turf at a rate that results in greater than 0.7 lb per 1,000 sq. ft. of readily available nitrogen or more than 0.9 lb per 1,000 sq. ft. of total nitrogen with a least 20% of which shall consist of slow release nitrogen per application. Additional restrictions apply to total nitrogen applied to turf per season. Other state and local restrictions may apply. [Maryland, New Hampshire, or New Jersey Applications]**

**This fertilizer contains phosphorus and may not be used on turf in the state of Maryland except when 1) providing nutrients to specific soils and target vegetation as determined to be necessary in accordance with a soil test that was conducted by a laboratory identified under §8-803.7 of the Agriculture Article, Annotated Code of Maryland, performed no more than 3 years before the application; 2) establishing vegetation for the first time, such as after land disturbance, provided the application is conducted in accordance with the recommended application rates established by the State; or 3) reestablishing or repairing a turf area. [Maryland Applications which contain Phosphorus] Not for use on established lawns or grass in MD. [If phos >5% and is not classified as a “starter” fertilizer]**

**In Virginia and New Jersey this lawn/turf fertilizer contains phosphorous and is only for nonagricultural use on (i) turf during its first growing season, (ii) on turf areas being repaired or renovated, and (iii) on turf where a soil test performed within the last 3 years indicates a**

phosphorous deficiency. This fertilizer is not for the routine maintenance of turf. [Virginia and New Jersey Applications which contain Phosphorus]

If this product is being sold in a state requiring publication of information regarding its metal content, information regarding the contents and levels of metals in this product is available at the following website: <http://www.aafco.org/metals.html>

For the State of Washington, information regarding the contents and levels of metals in this product is available from the internet at: <http://www.aapfco.org/metals.html>

Apply only to actively growing turf. Do not apply near water, storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn, and sweep any product that lands in the driveway, sidewalk, or street, back onto your lawn. Check with your local Cooperative Extension Agency to obtain specific information on local turf best management practices. Check with your county or city government to determine if there are local regulations for fertilizer use. [FL Language for Specialty Products]

The maximum rate of application of this product must not exceed the lesser of the applicable rate determined from the [Table [XX]: Use Rates or Broadcast Application Rates], and the applicable rate determined in the State Nutrient Restrictions table.

#### STATE NUTRIENT RESTRICTIONS

State	Readily Available Nitrogen* lbs/1,000 sq ft	Total Nitrogen lbs/1,000 sq ft
MD, NH, VA	0.7	0.9
NJ	0.7	1.0
XXX	XXX	XXX

\* Nitrogen present beyond the amount shown as Readily Available must be in the form of Slow-Release nitrogen

Feed every [X] weeks / months for optimal results Note to PM: the appropriate number of weeks or months will appear on the Final Printed Label

[ICON: bag] Vigoro® Southern / St. Augustine Weed & Feed / Weed & Feed [Apply anytime weeds are actively growing] [Note: Must match use directions and timing on label and cannot conflict with any restrictions]

or [use] [ICON: bag] Vigoro® Lawn Fertilizer / Food [Apply anytime during the growing season] [Note: Must match use directions and timing on label and cannot conflict with any restrictions]

Expert Gardener® is marketed exclusively by Wal-Mart Stores, Inc. [Insert Company Address]

Expert Gardener® and Expert Gardener logo design are [registered] trademarks of Wal-Mart Stores, Inc.

Made for True Value Corporation [Insert Company Address]

Made for Ace Hardware Corp. [Insert Company Address]

Green Turf® is a registered trademark of United Industries Corp.

Green Turf® is a registered trademark of Ace Hardware Corp.



**Green Thumb® is a registered trademark of True Value Corporation**

**UFLEXX™**

**UFLEXX™ is a trademark of AGROTAIN International, LLC.**

**UMAXX®**

**UMAXX® is a registered trademark of AGROTAIN International, LLC.**

**N-Sure®**

**N-Sure is a registered trademark of Tessengerlo Kerley**

**Apex-10™ Specialty Nutritionals**

**Crystal Green® slow-release nutrient technology**

**Crystal Green is a registered trademark of Ostara Nutrient Recovery Technologies**

**Agrotain® Ultra**

**Agrotain is a registered trademark of Koch Agronomic Services**

**Harrell's – Growing a Better World [Harrell's Private Labels Only]**

**[Contains] Harrell's PROFertilizer**

**Harrell's Logo**

**RXN XX – [The % RxN (Agrotain Ultra) is indicated by the number built into the logo and can range from 20 to 100].**

**STN XXX – [The % STN is indicated by the number built into the logo and can range from 25 to 100]**

**STU [Agrotain Ultra]**

**Regain [Spring Valley Labels Only]**

**XCU is registered trademark of Koch Agronomic Services, LLC.**

**with XCU®**

**MESA® Patented [Lebanon Seaboard Private Labels Only]**

**Meth-Ex® [Lebanon Seaboard Private Labels Only]**

**Expo potassium sulfate [Lebanon Seaboard Private Labels Only]**

**With LSN – Lebanon Turf Stabilized Nitrogen [Lebanon Seaboard Private Labels Only]**

**[Green Smart Technology] Enhanced efficiency fertilizer [GreenSmart] for a Green Lawn [Lebanon Seaboard Private Labels Only]**

**Contains LESCO® Ploy Plus® Polymer Coated Urea to provide uniform growth with extended nitrogen feeding. Poly Plus is comprised of Polymer Coated Urea. [John Deere landscapes/LESCO Private Labels Only]**

**LESCO and Poly Plus are registered trademarks and the sweeping design is a trademark of LESCO Technologies, LLC. [John Deere Landscapes/LESCO Private Labels Only]**

**Wolf Trax DDP (Dispersible Dry Powder) Fe (Iron) Mn (Manganese), Zn (Zinc) Micronutrients**

**This product contains polymer-coated Enhanced Efficiency Fertilizer technology. As your lawn/turfgrass demands nutrients, nitrogen is released slowly into the soil for plant root uptake. This controlled-release approach eliminates surge growth and provides predictable feeding for over two months. All Menards Premium fertilizer products contain Enhanced Efficiency Fertilizer which ensures consistent feeding, deep greening, and promotes overall lawn/turfgrass health.**

**SPREAD IT & FORGET IT and the SPREAD IT & FORGET IT logo are registered trademarks of Koch Agronomic Services, LLC.**

**DURATION CR and the DURATION CR logo are registered trademarks of Koch Agronomic Services, LLC.**

**The KOCH logo is a trademark of Koch Industries, Inc. © 2014 Koch Agronomic Services, LLC.**

**STA-GREEN® is used under license to Central Garden and Pet Company**

**UFLEXX is a trademark of Koch Fertilizer LLC**

**DRIVEN BY DURATION CR**

**Contains XCU Polymer Coated Sulfur Coated Urea, a trademark of Koch Agronomic Services, LLC**

**All N™ [Contains Arborite®]**

Arborite® is a registered trademark of the Weyerhaeuser NR Company  
NITROLOCK TECHNOLOGY™ is a trademark of The Gaviion Group, LLC  
ALL N is a trademark of Turf Care Supply Corp.

**Your Prescription for a Picture Perfect Lawn**

**Turf Care Supply Corp – Manufacturing**

**Turf Care Supply Corp - TCS GrowStar Premier Turf Products**

**Premier Turf Products**

**Manufactured in the USA [Note: All inert materials must be produced in the US, and formulation must be manufactured in the US to use this claim]**

### **Personal Protective Equipment (PPE)**

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

- Long-sleeved shirt and long pants
- Wear waterproof gloves

- 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 and 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 thoroughly after handling and 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. If pesticide gets on skin, wash immediately with soap and water.
- 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

This pesticide may be toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark except as noted on appropriate labels. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

2,4-D 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. Application around a cistern or well may result in contamination of drinking water or groundwater.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

#### (Storage and Disposal for rigid containers 5 gal or less)

### Storage and Disposal

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

**Pesticide Storage:** Store in a cool dry place in original container.

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

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**(Storage and Disposal for nonrigid containers any size)****Storage and Disposal**

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

**Pesticide Storage:** Store in a cool dry place in original container.

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

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**(Storage and Disposal for refillable rigid containers larger than 5 gal)****Storage and Disposal**

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

**Pesticide Storage:** Store in a cool dry place in original container.

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

**Container Handling:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container.

Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**(Storage and Disposal for nonrefillable rigid containers larger than 5 gal)****Storage and Disposal**

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

**Pesticide Storage:** Store in a cool dry place in original container.

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

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

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. **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. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**Refer to label booklet for Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on the label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994 [or 1-800-XXX-XXXX].

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-589

EPA Est. \_\_\_\_\_

®Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

**Produced by/for:**  
**Manufactured by/for:**  
**Distributed by/for:**  
**Guaranteed by:**

**Dow AgroSciences LLC**  
**9330 Zionsville Road**  
**Indianapolis, IN 46268**

**NET WEIGHT** \_\_\_\_\_

(Label booklet cover):

<b>2,4-D</b>	<b>GROUP</b>	<b>4</b>	<b>HERBICIDE</b>
<b>PENOXsulAM</b>	<b>GROUP</b>	<b>2</b>	<b>HERBICIDE</b>

# Penoxsulam 2 FERT

## HERBICIDE

**For postemergence control of annual and perennial broadleaf weeds in established turfgrass, including residential lawns, golf courses, parks, sports fields, sod farms and around commercial buildings and other recreational and commercial turfgrass areas**

[XX lbs] Covers up to XX,000 sq ft (XXX' x XX')  
and/or

This bag covers XX,000 sq ft

<b>2,4-D</b>	<b>GROUP</b>	<b>4</b>	<b>HERBICIDE</b>
<b>PENOXsulAM</b>	<b>GROUP</b>	<b>2</b>	<b>HERBICIDE</b>

**Active Ingredients:**

2,4-dichlorophenoxyacetic acid.....	1.04%
penoxsulam: 2-(2,2-difluoroethoxy)-N-(5,8-dimethoxy[1,2,4] triazolo[1,5c]pyrimidin-2-yl)-6-(trifluoromethyl)benzenesulfonamide .....	0.01%
Other Ingredients.....	98.95%
Total .....	100.00%

Acid equivalent: 2,4-D acid – 0.86% - 17.2 lb/ton

**[Editor’s note: Bag size provided by supplemental distributor.]**

**[Editor’s note: Supplemental distributor will add fertilizer analysis and derivation statement for fertilizer carrier used.]**

**Guaranteed Fertilizer Analysis: XX-XX-XX †**

Total Nitrogen (N).....	XX%
XX% Ammoniacal Nitrogen	
XX% Nitrate Nitrogen	
XX% Water-Insoluble Nitrogen*	
XX% Urea Nitrogen**	
XX% Slowly available water soluble Nitrogen.	
XX% Other Water Soluble Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )*** .....	XX%
Soluble Potash (K <sub>2</sub> O).....	XX%
Calcium (Ca) .....	XX%
Magnesium (Mg) .....	XX%
XX% Water Soluble Magnesium (Mg)	
Sulfur****	
XX% Combined Sulfur (S)	
Boron (B) .....	XX%
Chlorine (Cl) [Max, Not more than] .....	XX%

Cobalt (Co)..... XX%  
 Copper (Cu)..... XX%  
 Iron (Fe)..... XX%  
     XX% Chelated Iron (Fe)  
     XX% Water Soluble Iron (Fe) Manganese (Mn)XX%  
     Water Soluble Manganese (Mn) ..... XX%  
 Molybdenum (Mo) ..... XX%  
 Nickel (Ni)..... XX%  
 Sodium (Na)..... XX%  
 Zinc (Zn)..... XX%  
     XX% Chelated Zinc (Zn)

\*[XX]% Water insoluble nitrogen from biosolids.

\*\*[XX]% coated slow release Nitrogen (N)

\*\*[XX]% Slowly available [urea] nitrogen from [polycoated] [polymer/sulfur] coated urea

\*\*[XX]% Slowly available water soluble nitrogen

\*\*[XX]% Slowly available nitrogen from methylene ureas

\*\*[XX]% Slowly available nitrogen from ureaform

\*\*[XX]% Slowly available nitrogen from BioSolids

\*\*[XX]% Stabilized urea nitrogen [or [urea] nitrogen stabilized] with [dicyandiamide] and N-(n-butyl) thiophosphoric triamide

\*\*\*[XX]% Free Sulfur (S)

Derived From: [XX]<sup>†</sup>

Primary plant foods derived from: [XX]<sup>†</sup>

Secondary plant foods derived from [XX]<sup>†</sup>

Iron derived from: [XX]<sup>†</sup>

Density – XX lb./cu.ft.

**[Editor's Note: the following information may be added in the boxes above, this footnote must be deleted from the label after completion of the above Fertilizer Analysis data]**

<sup>†</sup> Urea, methylene urea, sulfur coated urea, polymer coated urea, poly[mer] coated sulfur coated urea, urea formaldehyde, Ureaform, ammonium sulfate, corn gluten, bio-solids (Milorganite, Nutri-Pel, composted poultry manure), activated sewage sludge, diammonium phosphate, monoammonium phosphate, magnesium ammonium phosphate hexa-hydrate, triple super phosphate, ammoniated phosphates, sulfate of potash, muriate of potash, sulfate of potash-magnesia, potassium nitrate, copper oxide, copper sulfate, iron/ferric oxide, iron/ferrous sucate, iron/ferrous oxy-sulfate, iron/ferrous sulfate, manganese oxide, molybdc oxide, manganese sulfate, manganese sucate, zinc oxide, zinc sulfate, sodium borate, boron, sulfur, sodium molybdate, stabilized nitrogen, potassium magnesium sulfate, ferrous sulfate monohydrate, magnesium sulfate or limestone.

**Keep Out of Reach of Children**

## CAUTION

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

**Refer to inside of label booklet for additional precautionary information including Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on the label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994 or [1-800-XXX-XXXX].

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

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(Page 1 through end):

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## Precautionary Statements

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### Hazards to Humans and Domestic Animals

# CAUTION

**Harmful If Absorbed Through Skin, If Inhaled, Or If Swallowed • Causes Moderate Eye Irritation**

**Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wear protective eyewear, long-sleeved shirt, long pants, socks, shoes, and waterproof gloves. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.**

### 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 center or doctor 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 mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**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 15-20 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 contact 1-800-992-5994 [or 1-800-XXX-XXXX] for emergency medical treatment information.

### Personal Protective Equipment (PPE)

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

- Long-sleeved shirt and long pants
- Wear waterproof gloves
- 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 and 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.

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)].

### User Safety Recommendations

Users should:

- Wash hands thoroughly after handling and 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. If pesticide gets on skin, wash immediately with soap and water.

- 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

This pesticide may be toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark except as noted on appropriate labels. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

2,4-D 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. Application around a cistern or well may result in contamination of drinking water or groundwater.

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### Directions for Use

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It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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), restricted entry interval, and notification to workers (as applicable). 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 48 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
- Wear waterproof gloves
- Shoes plus socks
- Protective eyewear

### Non-Agricultural Use Requirements

The requirements of 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.

**Entry Restrictions for Non-WPS Uses:** Do not enter or allow people (or pets) to enter the treated area until dusts have settled.

### Storage and Disposal

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

**Pesticide Storage:** Store in a cool dry place in original container.

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

**Nonrefillable rigid containers 5 gallons or less:**

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**Nonrefillable nonrigid containers:**

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**Refillable rigid containers larger than 5 gal:**

**Container Handling:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**Nonrefillable rigid containers larger than 5 gal:**

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

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. **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. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**Product Information**

Penoxsulam 2 FERT herbicide is a stable combination of two herbicides. It provides postemergence control of annual, biennial and perennial broadleaf weeds in established turfgrass, including residential lawns, golf courses, parks, sports fields, sod farms and around commercial buildings and other recreational and commercial turfgrass areas.

## Use Precautions

- To minimize the potential for turfgrass injury, allow four weeks between applications.
- Use Penoxsulam 2 FERT on solid (monoculture) stands of perennial ryegrass or tall fescue at a maximum rate of 175 lb per acre. Some yellowing of these turfgrasses may occur within two weeks of application. Any discoloration is transitory and will dissipate under adequate growing conditions.
- Apply Penoxsulam 2 FERT to newly seeded or sprigged turfgrass only after the third mowing or after the turfgrass seedlings have developed an adequate secondary root system. Reseeding is not recommended for at least three to four weeks after application.
- For centipede grass: Grass should be green and actively growing at application.

## Use Restrictions

- Do not apply Penoxsulam 2 FERT on dichondra, carpetgrass, St. Augustinegrass, bahiagrass, or to golf course putting greens or tees, or turfgrass containing desirable clovers.
- Do not apply Penoxsulam 2 FERT directly to, or otherwise permit Penoxsulam 2 FERT to come into contact with, flowers, ornamental shrubs or trees, or other desirable broadleaf plants, as serious plant injury may occur.
- Do not apply to centipedegrass during the period of winter dormancy.
- The active ingredient in this product may leave residues in treated grass clippings which could be harmful to some plants and trees. Do not collect treated grass clippings for use as mulch around plants. 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 make more than two applications of Penoxsulam 2 FERT per acre per year.
- The re-treatment interval is 21 days for applications to turfgrass grown for sod or seed.

**[Editor's note: Supplemental distributor will add one of the following statements as appropriate if their product is registered in the state of Florida.]**

- Florida Applications: Do not exceed [1] [2] applications per year on bermudagrass in the north.
- Florida Applications: Do not exceed [1] [2] applications per year on bermudagrass in central Florida.
- Florida Applications: Do not exceed [1] [2] applications per year on bermudagrass in the south.
- Florida Applications: Do not exceed [1] [2] applications per year on centipedegrass in the north.
- Florida Applications: Do not exceed [1] [2] applications per year on centipedegrass in [central Florida] [the south].
- Florida Applications: Do not exceed [1] [2] applications per year on zoysiagrass in the north.
- Florida Applications: Do not exceed [1] [2] applications per year on zoysiagrass in central Florida.
- Florida Applications: Do not exceed [1] [2] applications per year on zoysiagrass in the south.
- Florida Applications: For application to sports turf (non-agricultural land planted exclusively for golf courses, parks and athletic fields), follow "SL191, 'Recommendations for N, P, K and Mg for Golf Course & Athletic Field Fertilization Base on Mehlich I Extractant'" available at <http://edis.ifas.ufl.edu/SS404>, or "BMP's for Enhancement of Environmental Quality on Florida's Golf Courses" available at <http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/glfbmp07.pdf>.
- Florida Applications: For application to urban turf (non-agricultural land planted in closely mowed, managed grasses except golf courses, parks and athletic fields), follow "Best Management Practices for Protection of Water Resources in Florida, June 2002, Florida Green Industries" available at [http://www.dep.state.fl.us/central/Home/MeetingsTraining/FLGreen/BMP\\_Book\\_final.pdf](http://www.dep.state.fl.us/central/Home/MeetingsTraining/FLGreen/BMP_Book_final.pdf).

## Treatment on Turfgrass Species Not Listed on the Label for Penoxsulam 2 FERT

Users who wish to use Penoxsulam 2 FERT on turfgrass species not listed on this label may determine the suitability for use by treating a small area at a specified rate. Prior to treatment of larger areas, observe the treated area for any sign of herbicidal injury during 30 days of normal growing conditions to determine if the target turfgrass species is tolerant. Do not apply to turfgrass under stress. The user assumes responsibility for any plant damage or other liability resulting from use of Penoxsulam 2 FERT on turfgrass species not listed on this label.

**Penoxsulam 2 FERT may be used on the following established turfgrass species** (numbers in parentheses (-) refer to footnotes below):

#### Established Cool Season Turfgrass

Common Name	Scientific Name
annual bluegrass	<i>Poa annua</i>
bentgrass	<i>Agrostis</i> species
bluegrass, Kentucky	<i>Poa pratensis</i>
fescue, chewing	<i>Festuca rubra</i> var. <i>commutata</i>
fescue, creeping red	<i>Festuca rubra</i>
fescue, sheeps	<i>Festuca ovina</i>
fescue, tall (1)	<i>Festuca arundinaceae</i>
ryegrass, perennial (1)	<i>Lolium perenne</i>

#### Established Warm Season Turfgrass

Common Name	Scientific Name
bermudagrass (common or hybrid)	<i>Cynodon dactylon</i>
centipedegrass (2)	<i>Eremochloa ophiuroides</i>
fescue, tall (growing in warm season areas) (1)	<i>Festuca arundinaceae</i>
kikuyugrass	<i>Pennisetum clandestinum</i>
seashore paspalum	<i>Paspalum vaginatum</i>
zoysiagrass	<i>Zoysia japonica</i>
zoysiagrass	<i>Zoysia tenuifolia</i>

1. Use Penoxsulam 2 FERT on these species at a maximum rate of 175 lb (0.02 lb ai penoxsulam) per acre per application and only if some injury can be tolerated. A slight yellowing of turfgrass may occur within two weeks of application. Any discoloration is transient and is generally gone within four weeks of treatment under adequate growing conditions.
2. Do not apply to centipedegrass during the period of winter dormancy. Grass should be green and actively growing at application.

#### Weeds Controlled or Suppressed

Generally, application rates at the lower end of the rate range will be satisfactory for young, succulent growth of sensitive weed species. For less sensitive species and under conditions where control is more difficult (plant stress conditions such as drought or extreme temperatures, dense weed stands and/or larger weeds), the higher rate within the rate range or repeat applications will be needed. Weeds growing in the absence of competition from other vegetation generally require higher rates or repeat applications to obtain satisfactory control or suppression.

Weeds Controlled or Suppressed		Rate	
		lb/acre	lb/1000 sq ft
bedstraw	medic, black	150 - 175	3.4 - 4
burdock	morningglory		
chickweed	peppergrass		
chicory	pigweed		
clover	plantain		
dandelion	plantain, broadleaf		
dock	plantain, buckhorn		
dollarweed	purslane		
eclipta	ragweed		
healall	sheepsorrel		
henbit	shepherd's purse		
ivy, ground	speedwell		
knotweed	thistle		

lambsquarters			
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## Weed Resistance Management

Penoxsulam 2 FERT, which contains the active ingredients 2,4-D is a Group 4 and Penoxsulam is a Group 2 herbicide, based on the mode of action classification system of the Weed Science Society of America.

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a best practice. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance.

The continued effectiveness of this product depends on the successful implementation of a weed resistance management program.

To aid in the prevention of developing weeds resistant to this product, users should:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Start with a clean field, using either a burndown herbicide application or tillage.
- If using post-emergence herbicides or tank mixes, control weeds early when they are relatively small (less than 4 inches).
- Apply full rates of Penoxsulam 2 FERT for the most difficult to control weed in the field at the specified time to minimize weed escapes.
- Scout fields after application to detect weed escapes or shifts in control of weed species.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
- Report any incidence of non-performance of this product against a particular weed to your local company representative, local retailer, or county extension agent.
- Contact your local company representative, crop advisor, or extension agent to find out if suspected resistant weeds to these MOAs have been found in your region. Do not assume that each listed weed is being controlled by multiple mode of action. Products with multiple active ingredients are intended to broaden the spectrum of weeds that are controlled. Some weeds may be controlled by only one of the active ingredient in this product.
- If resistance is suspected, treat weed escapes with an herbicide having a mode of action other than Group 2 or Group 4 and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Suspected herbicide-resistant weeds may be identified by these indicators:
  - Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
  - A spreading patch of non-controlled plants of a particular weed species; and
  - Surviving plants mixed with controlled individuals of the same species.

Additionally, users should follow as many of the following herbicide resistance management practices as is practical:

- Use a broad spectrum herbicide with other mode of action as a foundation in a weed control program, if appropriate.
- Utilize sequential applications of herbicides with alternative modes of action.
- Rotate the use of this product with non-Group 2 or Group 4 herbicides.
- Avoid making more than two sequential applications of Penoxsulam 2 FERT and any other Group 2 and Group 4 herbicides within a single growing season unless mixed with an herbicide with a different mode of action with an overlapping spectrum for the difficult-to-control weeds.
- Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Use good agronomic principles that enhance crop development and crop competitiveness.

- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Manage weeds in and around fields to reduce weed seed production

### Application Directions

Apply Penoxsulam 2 FERT using a drop or rotary-type spreader designed to apply granules. Calibrate application equipment prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or turfgrass injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

To optimize product performance, mow the turfgrass two to three days before applying Penoxsulam 2 FERT. If the turfgrass is under moisture stress, a thorough sprinkler irrigation of at least 1/2 inch may be needed at least one to two days before application. For optimal results, apply Penoxsulam 2 FERT in the morning when dew is present. If necessary, sprinkler irrigate with less than 1/4 inch of water just prior to application to maximize particle adherence to leaf surfaces. Avoid watering of treated area within 24 hours of application. Avoid making applications if rainfall is expected within 24 hours after treatment.

### Application Techniques for Applying Penoxsulam 2 FERT

- When using a drop-type spreader, a splashboard mounted under the hopper will provide more even granule distribution.
- A chain fastened to the side of the spreader and allowed to drag on the soil surface can be used to mark the edge of the treated swath and help prevent skips or overlaps.
- For treating smaller areas, use a hand held or push-type rotary applicator such as a whirlybird or cyclone unit. For hand held units, walk and turn the crank at a constant rate of speed.
- For small, difficult to treat areas use a shaker-type applicator made from a small container with holes punched in the bottom. Carefully measure the amount of product needed to avoid over application.

### Spreader Settings as a Guide for Calibration

**Note:** These settings are provided as a suggested starting point in calibrating each individual spreader. Since no two spreaders are alike, these settings are not intended to be used as absolute recommendations by Dow AgroSciences or the spreader manufacturer.

**[Editor's note: With available data Supplemental Distributor may add the following statement.]**  
**These settings were calibrated and field tested. However, age, condition of spreader speed of operations and evenness of terrain may require slightly different settings for desired coverage.**

Check equipment frequently to verify calibration and proper functioning.

**[Editor's note: Supplemental Distributor may add a table listing recommended application equipment and calibration settings.]**

Brand and Model of Spreader	Application Rates	Calibration Settings at Specified Rate					
		lb/1000 sq ft	3.4	XX	XX	XX	XX
	lb/acre	150	XX	XX	XX	XX	175
	lb nitrogen / 1000 sq ft	XX	XX	XX	XX	XX	XX
XXXXXXX		XX	XX	XX	XX	XX	XX

[AND/OR]

<b>Calibration Settings</b>
-----------------------------

Rate	lbs. Product per 1,000 sq ft	lbs. Nitrogen per 1,000 sq ft	lbs A.I./a.e per acre
Low	3.4	XX	XX
Medium	XX	XX	XX
High	4	XX	XX

[AND/OR]

Brand and Model of Spreader	Calibration Settings (lb/1000 sq ft)*		
	Low	Medium	High
XXXXXXXX	XX	XX	XX
XXXXXXXX	XX	XX	XX
XXXXXXXX	XX	XX	XX

[\*These settings are approximate for the application rate shown per 1,000 square feet. You may need to adjust the spreader setting depending on walking speed, spreader condition and product]

AND/OR

Spreader	Settings for Spreader	
	Rate of Penoxsulam 2 FERT	
	150 lb/acre	175 lb/acre
XX	XX	XX

## Rates and Timing of Application

Apply 150 to 175 lb of Penoxsulam 2 FERT per acre (3.4 to 4 lb per 1000 sq ft) per application to established turfgrass. Possible re-treatment in approximately 30 days may be necessary if turfgrass is heavily infested with weeds or if adverse low moisture conditions prevail and weeds are in a state of poor growth. Do not exceed 350 lb of Penoxsulam 2 FERT per acre (8 lb per 1000 sq ft) per year because damage to turfgrass may occur. Do not make more than two applications per season.

**Precaution:** When applying to warm season turfgrass under conditions of inadequate moisture, high temperature and high humidity, over-application may cause minor transitory discoloration. Reduce application rates by 50% during hot, dry conditions to avoid possible dehydration or browning of turfgrass.

**[Editor's note: Supplemental distributor will select the appropriate bag size and present only the rate information provided for that bag size on product labeling.]**

### Broadcast Rates for Penoxsulam 2 FERT

Bag Size	Rate		Treated Area	
	lb/acre	lb/1000 sq ft	acre	sq ft
15	150	3.4	0.10	4,400
	175	4	0.09	3,900
16	150	3.4	0.11	4,800
	175	4	0.09	3,900
17	150	3.4	0.11	4,800
	175	4	0.10	4,400
18	150	3.4	0.12	5,200
	175	4	0.10	4,400
20	150	3.4	0.13	5,700
	175	4	0.11	4,800
30	150	3.4	0.20	8,700
	175	4	0.17	7,400



40	150	3.4	0.27	12,000
	175	4	0.23	10,000
45	150	3.4	0.30	13,000
	175	4	0.26	11,000
50	150	3.4	0.33	14,000
	175	4	0.29	13,000

Best weed control results are obtained when Penoxsulam 2 FERT is applied to small, actively growing weeds in the spring or early fall. Extreme growing conditions such as drought or near freezing temperatures prior to, at, or following time of application may reduce weed control. Broadleaf weed species germinate at different times.

This product may also be applied to newly established warm season turfgrass. Delay treatments four weeks after sodding, sprigging or plugging.

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### **Terms and Conditions of Use**

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If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. To the extent permitted by law, otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

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### **Warranty Disclaimer**

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Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT PERMITTED BY LAW, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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### **Inherent Risks of Use**

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It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Seller. To the extent permitted by law, all-such risks shall be assumed by buyer.

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### **Limitation of Remedies**

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To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Seller's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

Seller shall not be liable for losses or damages resulting from handling or use of this product unless Seller is promptly notified of such loss or damage in writing. To the extent permitted by law, in no case shall Seller be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of the Seller or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

EPA accepted 03/04/2018

**[Sub Label B: Residential Uses]**

(Base label):

<b>2,4-D</b>	<b>GROUP</b>	<b>4</b>	<b>HERBICIDE</b>
<b>PENOXsulAM</b>	<b>GROUP</b>	<b>2</b>	<b>HERBICIDE</b>

**Penoxsulam 2 FERT**  
**HERBICIDE**

**For postemergence control of annual and perennial broadleaf weeds in established home lawns and other recreational turfgrass areas**

In the state of Florida: Do not apply near water, storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn/garden, and sweep any product that lands on the driveway, sidewalk, or street, back onto your lawn/garden.

**[XX lbs] Covers up to XX,000 sq ft (XXX' x XX')**  
and/or  
**This bag covers XX,000 sq ft**

\_\_\_\_\_ lb covers up to \_\_\_\_\_ sq ft [of turfgrass]

<b>2,4-D</b>	<b>GROUP</b>	<b>4</b>	<b>HERBICIDE</b>
<b>PENOXsulAM</b>	<b>GROUP</b>	<b>2</b>	<b>HERBICIDE</b>

Active Ingredients:

2,4-dichlorophenoxyacetic acid.....	1.04%
penoxsulam: 2-(2,2-difluoroethoxy)-N-(5,8-dimethoxy[1,2,4] triazolo[1,5c]pyrimidin-2-yl)-6-(trifluoromethyl)benzenesulfonamide .....	0.01%
Other Ingredients.....	98.95%
Total .....	100.00%

Acid equivalent: 2,4-D acid – 0.86% - 17.2 lb/ton

**[Editor's note: Bag size provided by supplemental distributor.]**

**[Editor's note: Supplemental distributor will add fertilizer analysis and derivation statement for fertilizer carrier used.]**

**Guaranteed Fertilizer Analysis: XX-XX-XX †**

Total Nitrogen (N).....	XX%
XX% Ammoniacal Nitrogen	
XX% Nitrate Nitrogen	
XX% Water-Insoluble Nitrogen*	
XX% Urea Nitrogen**	
XX% Slowly available water soluble Nitrogen.	
XX% Other Water Soluble Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )*** .....	XX%
Soluble Potash (K <sub>2</sub> O).....	XX%
Calcium (Ca) .....	XX%

Magnesium (Mg) ..... XX%  
 XX% Water Soluble Magnesium (Mg)  
 Sulfur\*\*\*\*  
 XX% Combined Sulfur (S)  
 Boron (B) ..... XX%  
 Chlorine (Cl) [Max, Not more than] ..... XX%  
 Cobalt (Co)..... XX%  
 Copper (Cu)..... XX%  
 Iron (Fe)..... XX%  
 XX% Chelated Iron (Fe)  
 XX% Water Soluble Iron (Fe) Manganese (Mn)XX%  
 Water Soluble Manganese (Mn) ..... XX%  
 Molybdenum (Mo) ..... XX%  
 Nickel (Ni)..... XX%  
 Sodium (Na)..... XX%  
 Zinc (Zn)..... XX%  
 XX% Chelated Zinc (Zn)

\*[XX]% Water insoluble nitrogen from biosolids.

\*\*[XX]% coated slow release Nitrogen (N)

\*\*[XX]% Slowly available [urea] nitrogen from [polycoated] [polymer/sulfur] coated urea

\*\*[XX]% Slowly available water soluble nitrogen

\*\*[XX]% Slowly available nitrogen from methylene ureas

\*\*[XX]% Slowly available nitrogen from ureaform

\*\*[XX]% Slowly available nitrogen from BioSolids

\*\*[XX]% Stabilized urea nitrogen [or [urea] nitrogen stabilized] with [dicyandiamide] and N-(n-butyl) thiophosphoric triamide

\*\*\*\*[XX]% Free Sulfur (S)

Derived From: [XX]†

Primary plant foods derived from: [XX]†

Secondary plant foods derived from [XX]†

Iron derived from: [XX]†

Density – XX lb./cu.ft.

**[Editor's Note: the following information may be added in the boxes above, this footnote must be deleted from the label after completion of the above Fertilizer Analysis data]**

† Urea, methylene urea, sulfur coated urea, polymer coated urea, poly[mer] coated sulfur coated urea, urea formaldehyde, Ureaform, ammonium sulfate, corn gluten, bio-solids (Milorganite, Nutri-Pel, composted poultry manure), activated sewage sludge, diammonium phosphate, monoammonium phosphate, magnesium ammonium phosphate hexa-hydrate, triple super phosphate, ammoniated phosphates, sulfate of potash, muriate of potash, sulfate of potash-magnesia, potassium nitrate, copper oxide, copper sulfate, iron/ferric oxide, iron/ferrous sucrate, iron/ferrous oxy-sulfate, iron/ferrous sulfate, manganese oxide, molybdc oxide, manganese sulfate, manganese sucrate, zinc oxide, zinc sulfate, sodium borate, boron, sulfur, sodium molybdate, stabilized nitrogen, potassium magnesium sulfate, ferrous sulfate monohydrate, magnesium sulfate or limestone.

**Keep Out of Reach of Children**

**CAUTION**

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**Precautionary Statements**

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**Hazards to Humans and Domestic Animals**

**Harmful If Absorbed Through Skin, If Inhaled, Or If Swallowed • Causes Moderate Eye Irritation**

**Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wear protective eyewear, long-sleeved shirt, long pants, socks, shoes, and waterproof gloves. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.**

### **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 center or doctor 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 mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**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 15-20 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 contact 1-800-992-5994 [or 1-800-XXX-XXXX] for emergency medical treatment information.

### **[Optional Label Claims]**

**Controls [tough] weeds [such as clover] [dandelion] [dollarweed] [henbit] [ground ivy] [plantain] [chickweed] [sedges] [Florida betony] [lespedeza] [knotweed]**

**Effective weed control leads to greener, thicker lawns**

**Apply [anytime] when weeds are actively growing [Note: Must match use directions and timing on label and cannot conflict with any restrictions.]**

**Feeds [and strengthens] root systems without burning your lawn**

**Kills weeds [and fertilizes the lawn]**

**For use on cool and warm season turfgrass**

**Can be applied to newly established warm season grass**

**Can be used on newly planted grass**

**Contains LockUp Specialty Herbicide Weed Control**

**Phosphorus-Free (Approved for use ONLY on Phosphorus-Free Fertilizer/Carrier blends)**

**Phosphorus [Phosphate] free [formula] (Approved for use ONLY on Phosphorus-Free Fertilizer/Carrier blends)**

**Zero Phosphorus (Approved for use ONLY on Phosphorus-Free Fertilizer/Carrier blends)**

**Feeds [X,XXX] sq ft**

**This Bag Treats Up To\_\_\_\_\_ Square Feet**

**Contains Time-Released Nitrogen for Extended Feeding**

**Improves nutrient deficient lawns**

**Long-lasting Feeding**

**Premium Granular Fertilizer - Providing the Nutrients Needed for Beautiful Healthy Lawn/Turfgrass.**

**Controlled [Slow] release nitrogen for extended feeding**

**CONTROLLED-RELEASE FERTILIZER**

**ENGINEERED FOR PERFORMANCE**

**Contains Iron for deep greening**

**Iron enriched [formula]**

**Deep greening [formula]**

**Rich Green Lawn/Turfgrass**

**Slow release nitrogen feeds your lawn over [x] months. [Note: The “x” represents the amount of months the fertilizer feeds depending on what we use (i.e. methylene urea, PCSCU)]**

**Contains Non-Burning, Slow-Release Nitrogen and Iron for Deep Greening.**

**Contains Non-Burning Nitrogen**

**Contains Slow-Release Nitrogen**

**Contains SCU [Sulfur Coated Urea]**

**Note: Supplemental applications of fertilizer are needed to achieve a minimum 1 lb Nitrogen per 1,000 sq. ft.**

**Maximize your lawn**

**Fortified with Milorganite [logo/graphic] Need to move logo outside of label text (above product name, on side of label or below text)]**

**Controlled Release [Fertilizer] Technology feeds [lawn] for 2+ months**

**Promotes Thick Green Growth and Controls over [1, 2, 3, ...47] weed types including [dandelion, dollarweed, clover, ...or insert any weed found in the approved weed list]**

**Kills Dollarweed & Over [1, 2, 3, ...47] Other Weed Types! As listed**

**Kills Dollarweed & [1, 2, 3, ...47] other major lawn weeds as listed**

**Kills tough listed weeds like [dandelion, dollarweed, clover, ...or insert any weed found in the approved weed list]**

[Just] One application kills tough listed weeds like [dandelion, dollarweed, clover, ...or insert any weed found in the approved weed list]

Apply in the fall to kill reoccurring [dandelion, dollarweed, clover, ...or insert any weed found in the approved weed list]

[Swiss Farms Guarantee] [When you chose Swiss Farms products, you can be assured of high quality and performance in your lawn [and garden]. If for any reason you are not completely satisfied with this product, we will refund your money. Please send proof of purchase and original register receipt to our address. We will promptly send you a refund check.

[The Scotts Company Guarantee] Money Back Guarantee\* - [Money Back Guarantee] \*If for any reason you, the consumer/customer, are not satisfied after using this product, you are entitled to get your money back. Simply send us proof of purchase and we will mail you a refund check promptly.

Stein Policy - 100% Satisfaction Guaranteed - If for any reason you are not satisfied with the results after using this premium product, you are entitled to replacement bags of fertilizer or your money back. Simply bring proof of purchase to any Stein Garden Center. [EC Grow Private Labels Only]

If, after using this product, you are dissatisfied with the results, simply mail the sales receipt, a brief description of the problem and your contact information to the address listed below for a refund of the purchase price of the product. EC Grow • PO Box 837 • Eau Claire, WI 54702 [EC Grow Private Labels Only]

If you have questions or comments regarding the quality of this product, please write to Turf Care Supply Corp. at the address below, or call Customer Service at 877-220-1014 [1306] between the hours of 9 A.M. and 5 P.M., Eastern Time, Monday through Friday. Please refer to the item number found on this bag when writing or calling. [Turf Care Supply Private Labels Only]

Join the Home Depot Garden Club – For more great tips and offers.

Note to PM: Vigoro products are exclusively sold at Home Depot and the Garden Club Claim will only be used on Vigoro branded products

Superscript used is first letter of run code on end of container

[Swiss Farms] Promise Satisfaction Guaranteed] / [The [Swiss Farms] Promise is in Every Bag]

[The [Swiss Farms] Promise] If this product, when used for its intended purpose, fails to give you complete satisfaction, return the item to the [Swiss Farms Retail] store where purchased for free replacement of the same or similar item.

[Formulated] for centipede/St. Augustine lawns (or)

[Formulated] for Centipede & St. Augustine lawns

Use on [bentgrass, Kentucky bluegrass, bermudagrass, or insert any grass type found in the Established Cool Season Turfgrass and / or Established Warm Season Turfgrass lists found in Directions for Use] lawns

**Premium Turf Grade/Mini Fairway Grade: Size Guide Number SGN XXX** [The text box may have any combination of SGNs listed within the box, 80, 100, 145, 150, 195, 200, 210, 220, 230]

**Duration XXX – Average nutrient release XXX days** [The text box below may have any combination of the %Durations listed within the box. Duration 180 – Duration 120 – Duration 90 – Duration 45]

**Made in USA** [Note: All inert materials must be produced in the US, and formulation must be manufactured in US to use this claim]

**Formulated for Wisconsin**

Information regarding the contents and levels of metals in this product is available on the Internet at:

- California Regulatory Site: <https://apps1.cdfa.ca.gov/FertilizerProducts/>
- Oregon Regulatory Site: [http://oda.state.or.us/dbs/heavy\\_metal/search.lasso](http://oda.state.or.us/dbs/heavy_metal/search.lasso)
- Washington Regulatory Site: <http://agr.wa.gov/> or <http://agr.wa.gov/PestFert/Fertilizers/ProductDatabase.aspx>
- <http://www.aapfco.org/metals.html>
- <http://www.regulatory-info-sc.com>

It is a violation of law in Maryland and New Jersey to apply this product to turf at a rate that results in greater than 0.7 lb per 1,000 sq. ft. of readily available nitrogen or more than 0.9 lb per 1,000 sq. ft. of total nitrogen with a least 20% of which shall consist of slow release nitrogen per application. Additional restrictions apply to total nitrogen applied to turf per season. Other state and local restrictions may apply. [Maryland or New Jersey Applications]

No more than 0.7 lb per 1,000 sq. ft. of readily available nitrogen during any given 30 day period. No more than 0.9 lb (cool season grasses) or 1.0 lb (warm season grasses) per 1,000 sq. ft. of total nitrogen with a least 20% of which shall consist of slow release nitrogen during any given 30 day period. [Virginia Applications]

Do not apply near water storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn, and sweep any product that lands on the driveway, sidewalk, or street back onto your lawn and garden. [Maryland Applications]

It is a violation of law in Maryland, New Hampshire, and New Jersey to apply this product to turf at a rate that results in greater than 0.7 lb per 1,000 sq. ft. of readily available nitrogen or more than 0.9 lb per 1,000 sq. ft. of total nitrogen with a least 20% of which shall consist of slow release nitrogen per application. Additional restrictions apply to total nitrogen applied to turf per season. Other state and local restrictions may apply. [Maryland, New Hampshire, or New Jersey Applications]

This fertilizer contains phosphorus and may not be used on turf in the state of Maryland except when 1) providing nutrients to specific soils and target vegetation as determined to be necessary in accordance with a soil test that was conducted by a laboratory identified under §8-803.7 of the Agriculture Article, Annotated Code of Maryland, performed no more than 3 years before the application; 2) establishing vegetation for the first time, such as after land disturbance, provided the application is conducted in accordance with the recommended application rates established by the State; or 3) reestablishing or repairing a turf area. [Maryland Applications which contain Phosphorus] Not for use on established lawns or grass in MD. [If phos >5% and is not classified as a “starter” fertilizer]

In Virginia and New Jersey this lawn/turf fertilizer contains phosphorous and is only for nonagricultural use on (i) turf during its first growing season, (ii) on turf areas being repaired or

renovated, and (iii) on turf where a soil test performed within the last 3 years indicates a phosphorous deficiency. This fertilizer is not for the routine maintenance of turf. [Virginia and New Jersey Applications which contain Phosphorus]

If this product is being sold in a state requiring publication of information regarding its metal content, information regarding the contents and levels of metals in this product is available at the following website: <http://www.aafco.org/metals.html>

For the State of Washington, information regarding the contents and levels of metals in this product is available from the internet at: <http://www.aapfco.org/metals.html>

Apply only to actively growing turf. Do not apply near water, storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn, and sweep any product that lands in the driveway, sidewalk, or street, back onto your lawn. Check with your local Cooperative Extension Agency to obtain specific information on local turf best management practices. Check with your county or city government to determine if there are local regulations for fertilizer use. [FL Language for Specialty Products]

The maximum rate of application of this product must not exceed the lesser of the applicable rate determined from the [Table [XX]: Use Rates or Broadcast Application Rates], and the applicable rate determined in the State Nutrient Restrictions table.

#### STATE NUTRIENT RESTRICTIONS

State	Readily Available Nitrogen* lbs/1,000 sq ft	Total Nitrogen lbs/1,000 sq ft
MD, NH, VA	0.7	0.9
NJ	0.7	1.0
XXX	XXX	XXX

\* Nitrogen present beyond the amount shown as Readily Available must be in the form of Slow-Release nitrogen

Feed every [X] weeks / months for optimal results Note to PM: the appropriate number of weeks or months will appear on the Final Printed Label

[ICON: bag] Vigoro® Southern / St. Augustine Weed & Feed / Weed & Feed [Apply anytime weeds are actively growing] [Note: Must match use directions and timing on label and cannot conflict with any restrictions]

or [use] [ICON: bag] Vigoro® Lawn Fertilizer / Food [Apply anytime during the growing season] [Note: Must match use directions and timing on label and cannot conflict with any restrictions]

Expert Gardener® is marketed exclusively by Wal-Mart Stores, Inc. [Insert Company Address]

Expert Gardener® and Expert Gardener logo design are [registered] trademarks of Wal-Mart Stores, Inc.

Made for True Value Corporation [Insert Company Address]

Made for Ace Hardware Corp. [Insert Company Address]

Green Turf® is a registered trademark of United Industries Corp.



**Green Turf® is a registered trademark of Ace Hardware Corp.**

**Green Thumb® is a registered trademark of True Value Corporation**

**UFLEXX™**

**UFLEXX™ is a trademark of AGROTAIN International, LLC.**

**UMAXX®**

**UMAXX® is a registered trademark of AGROTAIN International, LLC.**

**N-Sure®**

**N-Sure is a registered trademark of Tessengerlo Kerley**

**Apex-10™ Specialty Nutritionals**

**Crystal Green® slow-release nutrient technology**

**Crystal Green is a registered trademark of Ostara Nutrient Recovery Technologies**

**Agrotain® Ultra**

**Agrotain is a registered trademark of Koch Agronomic Services**

**Harrell's – Growing a Better World [Harrell's Private Labels Only]**

**[Contains] Harrell's PROFertilizer**

**Harrell's Logo**

**RXN XX – [The % RxN (Agrotain Ultra) is indicated by the number built into the logo and can range from 20 to 100].**

**STN XXX – [The % STN is indicated by the number built into the logo and can range from 25 to 100]**

**STU [Agrotain Ultra]**

**Regain [Spring Valley Labels Only]**

**XCU is registered trademark of Koch Agronomic Services, LLC.**

**with XCU®**

**MESA® Patented [Lebanon Seaboard Private Labels Only]**

**Meth-Ex® [Lebanon Seaboard Private Labels Only]**

**Expo potassium sulfate [Lebanon Seaboard Private Labels Only]**

**With LSN – Lebanon Turf Stabilized Nitrogen [Lebanon Seaboard Private Labels Only]**

**[Green Smart] Enhanced efficiency fertilizer [GreenSmart] for a Green Lawn [Lebanon Seaboard Private Labels Only]**

**Contains LESCO® Ploy Plus® Polymer Coated Urea to provide uniform growth with extended nitrogen feeding. Poly Plus is comprised of Polymer Coated Urea. [John Deere landscapes/LESCO Private Labels Only]**

**LESCO and Poly Plus are registered trademarks and the sweeping design is a trademark of LESCO Technologies, LLC. [John Deere Landscapes/LESCO Private Labels Only]**

**Wolf Trax DDP (Dispersible Dry Powder) Fe (Iron) Mn (Manganese), Zn (Zinc) Micronutrients**

**This product contains polymer-coated Enhanced Efficiency Fertilizer technology. As your lawn/turfgrass demands nutrients, nitrogen is released slowly into the soil for plant root uptake. This controlled-release approach eliminates surge growth and provides predictable feeding for over two months. All Menards Premium fertilizer products contain Enhanced Efficiency Fertilizer which ensures consistent feeding, deep greening, and promotes overall lawn/turfgrass health.**

**SPREAD IT & FORGET IT and the SPREAD IT & FORGET IT logo are registered trademarks of Koch Agronomic Services, LLC.**

**DURATION CR and the DURATION CR logo are registered trademarks of Koch Agronomic Services, LLC.**

**The KOCH logo is a trademark of Koch Industries, Inc. © 2014 Koch Agronomic Services, LLC.**

**STA-GREEN® is used under license to Central Garden and Pet Company**

**UFLEXX is a trademark of Koch Fertilizer LLC**

**DRIVEN BY DURATION CR**

**Contains XCU Polymer Coated Sulfur Coated Urea, a trademark of Koch Agronomic Services, LLC**

**All N™ [Contains Arborite®]**

Arborite® is a registered trademark of the Weyerhaeuser NR Company  
NITROLOCK TECHNOLOGY™ is a trademark of The Gavilon Group, LLC  
ALL N is a trademark of Turf Care Supply Corp.

**Your Prescription for a Picture Perfect Lawn****Turf Care Supply Corp – Manufacturing****Turf Care Supply Corp - TCS GrowStar Premier Turf Products****Premier Turf Products**

**Manufactured in the USA [Note: All inert materials must be produced in the US and formulation must be manufactured in the US to use this claim]**

**Environmental Hazards**

This pesticide is toxic to fish and invertebrates. Do not apply to water. Do not contaminate water when disposing of washwaters or rinsate. 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 will 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 runoff to water bodies or drainage systems.

2,4-D 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. Application around a cistern or well may result in contamination of drinking water or groundwater.

**Storage and Disposal**

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

**Pesticide Storage:** Store in a cool dry place in original container.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

**If empty:** Place in trash or offer for recycling if available.

**If partly filled:** Call your local solid waste agency or 1-800-992-5994 for disposal instructions. Never place unused product down any indoor or outdoor drain.

**Refer to inside of label booklet for Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on the label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994 [or 1-800-XXX-XXXX].

EPA Reg. No. 62719-589

EPA Est. \_\_\_\_\_

®Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

**Produced by/for:**

**Manufactured by/for:**

**Distributed by/for:**

**Guaranteed by:**

**Dow AgroSciences LLC**  
**9330 Zionsville Road**  
**Indianapolis, IN 46268**

**NET WEIGHT \_\_\_\_\_**

(Label booklet cover):

<b>2,4-D</b>	<b>GROUP</b>	<b>4</b>	<b>HERBICIDE</b>
<b>PENOXsulAM</b>	<b>GROUP</b>	<b>2</b>	<b>HERBICIDE</b>

# Penoxsulam 2 FERT

## HERBICIDE

**For postemergence control of annual and perennial broadleaf weeds in established home lawns and other recreational turfgrass areas**

**In the state of Florida: Do not apply near water, storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn/garden, and sweep any product that lands on the driveway, sidewalk, or street, back onto your lawn/garden.**

**[XX lbs] Covers up to XX,000 sq ft (XXX' x XX')**  
and/or

**This bag covers XX,000 sq ft**

\_\_\_\_\_ lb covers up to \_\_\_\_\_ sq ft [of turfgrass]

<b>2,4-D</b>	<b>GROUP</b>	<b>4</b>	<b>HERBICIDE</b>
<b>PENOXsulAM</b>	<b>GROUP</b>	<b>2</b>	<b>HERBICIDE</b>

**Active Ingredients:**

2,4-dichlorophenoxyacetic acid.....	1.04%
penoxsulam: 2-(2,2-difluoroethoxy)-N-(5,8-dimethoxy[1,2,4] triazol[1,5c]pyrimidin-2-yl)-6-(trifluoromethyl)benzenesulfonamide .....	0.01%
Other Ingredients.....	98.95%
Total .....	100.00%

Acid equivalent: 2,4-D acid – 0.86% - 17.2 lb/ton

**[Editor's note: Bag size provided by supplemental distributor.]**

**[Editor's note: Supplemental distributor will add fertilizer analysis and derivation statement for fertilizer carrier used.]**

**Guaranteed Fertilizer Analysis: XX-XX-XX †**

Total Nitrogen (N).....	XX%
XX% Ammoniacal Nitrogen	
XX% Nitrate Nitrogen	
XX% Water-Insoluble Nitrogen*	
XX% Urea Nitrogen**	
XX% Slowly available water soluble Nitrogen.	
XX% Other Water Soluble Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )*** .....	XX%
Soluble Potash (K <sub>2</sub> O).....	XX%
Calcium (Ca) .....	XX%
Magnesium (Mg) .....	XX%
XX% Water Soluble Magnesium (Mg)	

## Sulfur\*\*\*\*

XX% Combined Sulfur (S)	
Boron (B) .....	XX%
Chlorine (Cl) [Max, Not more than] .....	XX%
Cobalt (Co).....	XX%
Copper (Cu).....	XX%
Iron (Fe).....	XX%
XX% Chelated Iron (Fe)	
XX% Water Soluble Iron (Fe) Manganese (Mn)XX%	
Water Soluble Manganese (Mn) .....	XX%
Molybdenum (Mo) .....	XX%
Nickel (Ni).....	XX%
Sodium (Na).....	XX%
Zinc (Zn).....	XX%
XX% Chelated Zinc (Zn)	

\*[XX]% Water insoluble nitrogen from biosolids.

\*\*[XX]% coated slow release Nitrogen (N)

\*\*[XX]% Slowly available [urea] nitrogen from [polycoated] [polymer/sulfur] coated urea

\*\*[XX]% Slowly available water soluble nitrogen

\*\*[XX]% Slowly available nitrogen from methylene ureas

\*\*[XX]% Slowly available nitrogen from ureaform

\*\*[XX]% Slowly available nitrogen from BioSolids

\*\*[XX]% Stabilized urea nitrogen [or [urea] nitrogen stabilized] with [dicyandiamide] and N-(n-butyl) thiophosphoric triamide

\*\*\*\*[XX]% Free Sulfur (S)

Derived From: [XX]†

Primary plant foods derived from: [XX]†

Secondary plant foods derived from [XX]†

Iron derived from: [XX]†

Density – XX lb./cu.ft.

**[Editor's Note: the following information may be added in the boxes above, this footnote must be deleted from the label after completion of the above Fertilizer Analysis data]**

† Urea, methylene urea, sulfur coated urea, polymer coated urea, poly[mer] coated sulfur coated urea, urea formaldehyde, Ureaform, ammonium sulfate, corn gluten, bio-solids (Milorganite, Nutri-Pel, composted poultry manure), activated sewage sludge, diammonium phosphate, monoammonium phosphate, magnesium ammonium phosphate hexa-hydrate, triple super phosphate, ammoniated phosphates, sulfate of potash, muriate of potash, sulfate of potash-magnesia, potassium nitrate, copper oxide, copper sulfate, iron/ferric oxide, iron/ferrous sucrate, iron/ferrous oxy-sulfate, iron/ferrous sulfate, manganese oxide, molybdic oxide, manganese sulfate, manganese sucrate, zinc oxide, zinc sulfate, sodium borate, boron, sulfur, sodium molybdate, stabilized nitrogen, potassium magnesium sulfate, ferrous sulfate monohydrate, magnesium sulfate or limestone.

## Keep Out of Reach of Children

# CAUTION

Refer to inside of label booklet for additional precautionary information including Directions for Use.

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on the label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994 [or 1-800-XXX-XXXX].

EPA Reg. No. 62719-589

EPA Est. \_\_\_\_\_

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**Manufactured by/for:**  
**Distributed by/for:**  
**Guaranteed by:**

**Dow AgroSciences LLC**  
**9330 Zionsville Road**  
**Indianapolis, IN 46268**

**NET WEIGHT \_\_\_\_\_**

(Page 1 through end):

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## Precautionary Statements

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### Hazards to Humans and Domestic Animals

# CAUTION

**Harmful If Absorbed Through Skin, If Inhaled, Or If Swallowed • Causes Moderate Eye Irritation**

**Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wear protective eyewear, long-sleeved shirt, long pants, socks, shoes, and waterproof gloves. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.**

### 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 center or doctor 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 mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**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 15-20 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 contact 1-800-992-5994 [or 1-800-XXX-XXXX] for emergency medical treatment information.

### Environmental Hazards

This pesticide is toxic to fish and invertebrates. Do not apply to water. Do not contaminate water when disposing of washwaters or rinsate. 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 will 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 runoff to water bodies or drainage systems.

2,4-D 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. Application around a cistern or well may result in contamination of drinking water or groundwater.

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### Directions for Use

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

Read all Directions for Use carefully before applying.

### Storage and Disposal

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

**Pesticide Storage:** Store in a cool dry place in original container.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

**If empty:** Place in trash or offer for recycling if available.



**If partly filled:** Call your local solid waste agency or 1-800-992-5994 for disposal instructions. Never place unused product down any indoor or outdoor drain.

## How This Product Works

Penoxsulam 2 FERT herbicide is a stable combination of two herbicides. It provides postemergence control of annual, biennial and perennial broadleaf weeds in established home lawns and other recreational turfgrass areas.

## Use Precautions

- To minimize the potential for turfgrass injury, allow four weeks between applications.
- Avoid unnecessary disturbances, including watering and mowing, for approximately 24 hours after application.
- Use Penoxsulam 2 FERT on solid (monoculture) stands of perennial ryegrass or tall fescue at a maximum rate of 4 lb per 1000 sq ft. Some yellowing of these turfgrasses may occur within two weeks of application. Any discoloration is temporary and will dissipate under adequate growing conditions.
- Apply Penoxsulam 2 FERT to newly seeded or sprigged turfgrass only after the third mowing or after the turfgrass seedlings have developed an adequate secondary root system. Reseeding is not recommended for at least three to four weeks after application.
- For centipede grass: Grass should be green and actively growing at application.

## Use Restrictions

- Do not apply this product in a way that will contact any person or pet, either directly or through drift. Keep people and pets out of the area during application.
- Do not allow people or pets to enter the treated area until dusts have settled.
- Do not use Penoxsulam 2 FERT on dichondra, St. Augustinegrass, carpetgrass, bahiagrass, or to turfgrass containing desirable clovers.
- Do not apply Penoxsulam 2 FERT directly to, or otherwise permit Penoxsulam 2 FERT to come into contact with, flowers, ornamental shrubs or trees, or other desirable broadleaf plants, as serious plant injury may occur.
- Do not apply to centipedegrass during the period of winter dormancy.
- The active ingredient in this product may leave residues in treated grass clippings which could be harmful to some plants and trees. Do not collect treated grass clippings for use as mulch around plants. 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 more than 4 lb of Penoxsulam 2 FERT per 1000 sq ft per application.
- Do not make more than two applications of Penoxsulam 2 FERT per year.

**[Editor's note: Supplemental distributor will add one of the following statements as appropriate if their product is registered in the state of Florida.]**

- Florida Applications: Do not exceed [1] [2] applications per year on bermudagrass in the north.
- Florida Applications: Do not exceed [1] [2] applications per year on bermudagrass in central Florida.
- Florida Applications: Do not exceed [1] [2] applications per year on bermudagrass in the south.
- Florida Applications: Do not exceed [1] [2] applications per year on centipedegrass in the north.
- Florida Applications: Do not exceed [1] [2] applications per year on centipedegrass in [central Florida] [the south].
- Florida Applications: Do not exceed [1] [2] applications per year on zoysiagrass in the north.
- Florida Applications: Do not exceed [1] [2] applications per year on zoysiagrass in central Florida.
- Florida Applications: Do not exceed [1] [2] applications per year on zoysiagrass in the south.

## Treatment on Turfgrass Species Not Listed on the Label for Penoxsulam 2 FERT

Users who wish to use Penoxsulam 2 FERT on turfgrass species not listed on this label may determine the suitability for use by treating a small area at a specified rate. Prior to treatment of larger areas, observe the treated area for any sign of herbicidal injury during 30 days of normal growing conditions to determine if the target turfgrass species is tolerant. Do not apply to turfgrass under stress. The user

assumes responsibility for any plant damage or other liability resulting from use of Penoxsulam 2 FERT on turfgrass species not listed on this label.

**Penoxsulam 2 FERT may be used on the following established turfgrass species** (numbers in parentheses (-) refer to footnotes below):

#### **Established Cool Season Turfgrass**

annual bluegrass  
bluegrass, Kentucky  
fescue, chewing  
fescue, creeping red  
fescue, sheeps  
fescue, tall (1)  
ryegrass, perennial (1)

#### **Established Warm Season Turfgrass**

bermudagrass (common or hybrid)  
centipedegrass (2)  
fescue, tall (growing in warm season areas) (1)  
kikuyugrass  
seashore paspalum  
zoysiagrass

1. Use Penoxsulam 2 FERT on these species at a maximum rate of 4 lb per 1000 sq ft per application and only if some injury can be tolerated. A slight yellowing of turfgrass may occur within two weeks of application. Any discoloration is temporary and is generally gone within four weeks of treatment under adequate growing conditions.
2. Do not apply to centipedegrass during the period of winter dormancy. Grass should be green and actively growing at the time of application.

### **Weeds Controlled or Suppressed**

Generally, application rates at the lower end of the rate range will be satisfactory for young, succulent growth of sensitive weed species. For less sensitive species and under conditions where control is more difficult (plant stress conditions such as drought or extreme temperatures, dense weed stands and/or larger weeds), the higher rate within the rate range or repeat applications will be needed. Weeds growing in the absence of competition from other vegetation generally require higher rates or repeat applications to obtain satisfactory control or suppression.

<b>Weeds Controlled or Suppressed</b>		<b>Rate</b>
		<b>lb/1000 sq ft</b>
bedstraw	lambsquarters	<b>[Editor's note:</b> Supplemental distributor to choose rate or rate range based upon setting(s) chosen from spreader settings table below.]
burdock	medic, black	
chickweed	morningglory	
chicory	peppergrass	
clover	pigweed	
dandelion	plantain, broadleaf	
dock	plantain, buckhorn	
dollarweed	purslane	
eclipta	ragweed	
healall	sheep sorrel	
henbit	shepherd's purse	
ivy, ground	speedwell	
knotweed	thistle	

### **Weed Resistance Management**

~~Penoxsulam 2 FERT, which contains the active ingredients 2,4-D is a Group 4 and Penoxsulam is a Group 2 herbicide, based on the mode of action classification system of the Weed Science Society of America.~~

~~Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a best practice. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with~~

or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance.

The continued effectiveness of this product depends on the successful implementation of a weed resistance management program.

To aid in the prevention of developing weeds resistant to this product, users should:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Start with a clean field, using either a burndown herbicide application or tillage.
- If using post-emergence herbicides or tank mixes, control weeds early when they are relatively small (less than 4 inches).
- Apply full rates of Penoxsulam 2 FERT for the most difficult to control weed in the field at the specified time to minimize weed escapes.
- Scout fields after application to detect weed escapes or shifts in control of weed species.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
- Report any incidence of non-performance of this product against a particular weed to your local company representative, local retailer, or county extension agent.
- Contact your local company representative, crop advisor, or extension agent to find out if suspected resistant weeds to these MOAs have been found in your region. Do not assume that each listed weed is being controlled by multiple mode of action. Products with multiple active ingredients are intended to broaden the spectrum of weeds that are controlled. Some weeds may be controlled by only one of the active ingredient in this product.
- If resistance is suspected, treat weed escapes with an herbicide having a mode of action other than Group 2 or Group 4 and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Suspected herbicide-resistant weeds may be identified by these indicators:
  - Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
  - A spreading patch of non-controlled plants of a particular weed species; and
  - Surviving plants mixed with controlled individuals of the same species.

Additionally, users should follow as many of the following herbicide resistance management practices as is practical:

- Use a broad spectrum herbicide with other mode of action as a foundation in a weed control program, if appropriate.
- Utilize sequential applications of herbicides with alternative modes of action.
- Rotate the use of this product with non-Group 2 or Group 4 herbicides.
- Avoid making more than two sequential applications of Penoxsulam 2 FERT and any other Group 2 and Group 4 herbicides within a single growing season unless mixed with an herbicide with a different mode of action with an overlapping spectrum for the difficult to control weeds.
- Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Use good agronomic principles that enhance crop development and crop competitiveness.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Manage weeds in and around fields to reduce weed seed production

## How to Apply

Apply Penoxsulam 2 FERT using a drop or rotary-type spreader designed to apply granules. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or turfgrass injury

may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

To optimize product performance, mow the turfgrass two to three days before applying Penoxsulam 2 FERT. If the turfgrass is under moisture stress, a thorough sprinkler irrigation of at least 1/2 inch may be needed at least one to two days before application. For optimal results, apply Penoxsulam 2 FERT in the morning when dew is present. If necessary, sprinkler irrigate with less than 1/4 inch of water just prior to application to maximize particle adherence to leaf surfaces. Avoid watering of treated area for 24 hours following application. Avoid making applications if rainfall is expected within 24 hours after treatment.

#### Application Techniques for Applying Penoxsulam 2 FERT

- When using a drop-type spreader, a splashboard mounted under the hopper will provide more even granule distribution.
- A chain fastened to the side of the spreader and allowed to drag on the soil surface can be used to mark the edge of the treated swath and help prevent skips or overlaps.
- For treating smaller areas, use a hand held or push-type rotary applicator such as a whirlybird or cyclone unit. For hand held units, walk and turn the crank at a constant rate of speed.
- For small, difficult to treat areas use a shaker-type applicator made from a small container with holes punched in the bottom. Carefully measure the amount of product needed to avoid over application.

#### Spreader Settings as a Guide for Calibration

**Note:** These settings are provided as a suggested starting point in calibrating each individual spreader. Since no two spreaders are alike, these settings are not intended to be used as absolute recommendations by Dow AgroSciences or the spreader manufacturer.

**[Editor's note: With available data Supplemental Distributor may add the following statement.]**  
**These settings were calibrated and field tested. However, age, condition of spreader speed of operations and evenness of terrain may require slightly different settings for desired coverage.**

Check equipment frequently to verify calibration and proper functioning.

**[Editor's note: Supplemental Distributor may add a table listing recommended application equipment and calibration settings.]**

Brand and Model of Spreader	Application Rates	Calibration Settings at Specified Rate					
	lb/1000 sq ft	3.4	XX	XX	XX	XX	4
	lb/acre	150	XX	XX	XX	XX	175
	lb nitrogen / 1000 sq ft	XX	XX	XX	XX	XX	XX
XXXXXXX		XX	XX	XX	XX	XX	XX

[AND/OR]

Calibration Settings			
Rate	lbs. Product per 1,000 sq ft	lbs. Nitrogen per 1,000 sq ft	lbs A./a.e per acre
Low	3.4	XX	XX
Medium	XX	XX	XX
High	4	XX	XX

[AND/OR]

Brand and Model of Spreader	Calibration Settings (lb/1000 sq ft)*		
	Low	Medium	High
XXXXXXX	XX	XX	XX
XXXXXXX	XX	XX	XX
XXXXXXX	XX	XX	XX

[\*These settings are approximate for the application rate shown per 1,000 square feet. You may need to adjust the spreader setting depending on walking speed, spreader condition and product]

AND/OR

Spreader	Settings for Spreader	
	Rate of Penoxsulam 2 FERT	
	3.4 lb/1000 sq ft	4 lb/1000 sq ft
XX	XX	XX

### Rates and Timing of Application

Apply Penoxsulam 2 FERT to established turfgrass. Possible re-treatment in approximately 30 days may be necessary if turfgrass is heavily overrun with weeds or if adverse low moisture conditions prevail and weeds are in a state of poor growth. Do not exceed specified rates because damage to turfgrass may occur. Do not make more than two applications per season.

**Precaution:** When applying to warm season turfgrass under conditions of inadequate moisture, high temperature and high humidity, over-application may cause minor transitory discoloration. Reduce application rates by 50% during hot, dry conditions to avoid possible dehydration or browning of turfgrass.

[Editor's note: Supplemental distributor will select the appropriate bag size and present only the rate information provided for that bag size on product labeling.]

### Broadcast Rates for Penoxsulam 2 FERT

Bag Size	Rate	Treated Area
lb	lb/1000 sq ft	sq ft
15	3.4	4,400
	4	3,900
16	3.4	4,800
	4	3,900
17	3.4	4,800
	4	4,400
18	3.4	5,200
	4	4,400
20	3.4	5,700
	4	4,800
30	3.4	8,700
	4	7,400
40	3.4	12,000
	4	10,000
45	3.4	13,000
	4	11,000
50	3.4	14,000
	4	13,000

### When to Apply

Best weed control results are obtained when Penoxsulam 2 FERT is applied to small, actively growing weeds in the spring or early fall. Extreme growing conditions such as drought or near freezing temperatures prior to, at, or following time of application may reduce weed control. Broadleaf weed species germinate at different times.

This product may also be applied to newly established warm season turfgrass. Delay treatments four weeks after sodding, sprigging or plugging.

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### **Terms and Conditions of Use**

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If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. To the extent permitted by law, otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

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### **Warranty Disclaimer**

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Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT PERMITTED BY LAW, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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### **Inherent Risks of Use**

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It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Seller. To the extent permitted by law, all such risks shall be assumed by buyer.

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### **Limitation of Remedies**

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To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Seller's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

Seller shall not be liable for losses or damages resulting from handling or use of this product unless Seller is promptly notified of such loss or damage in writing. To the extent permitted by law, in no case shall Seller be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of the Seller or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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