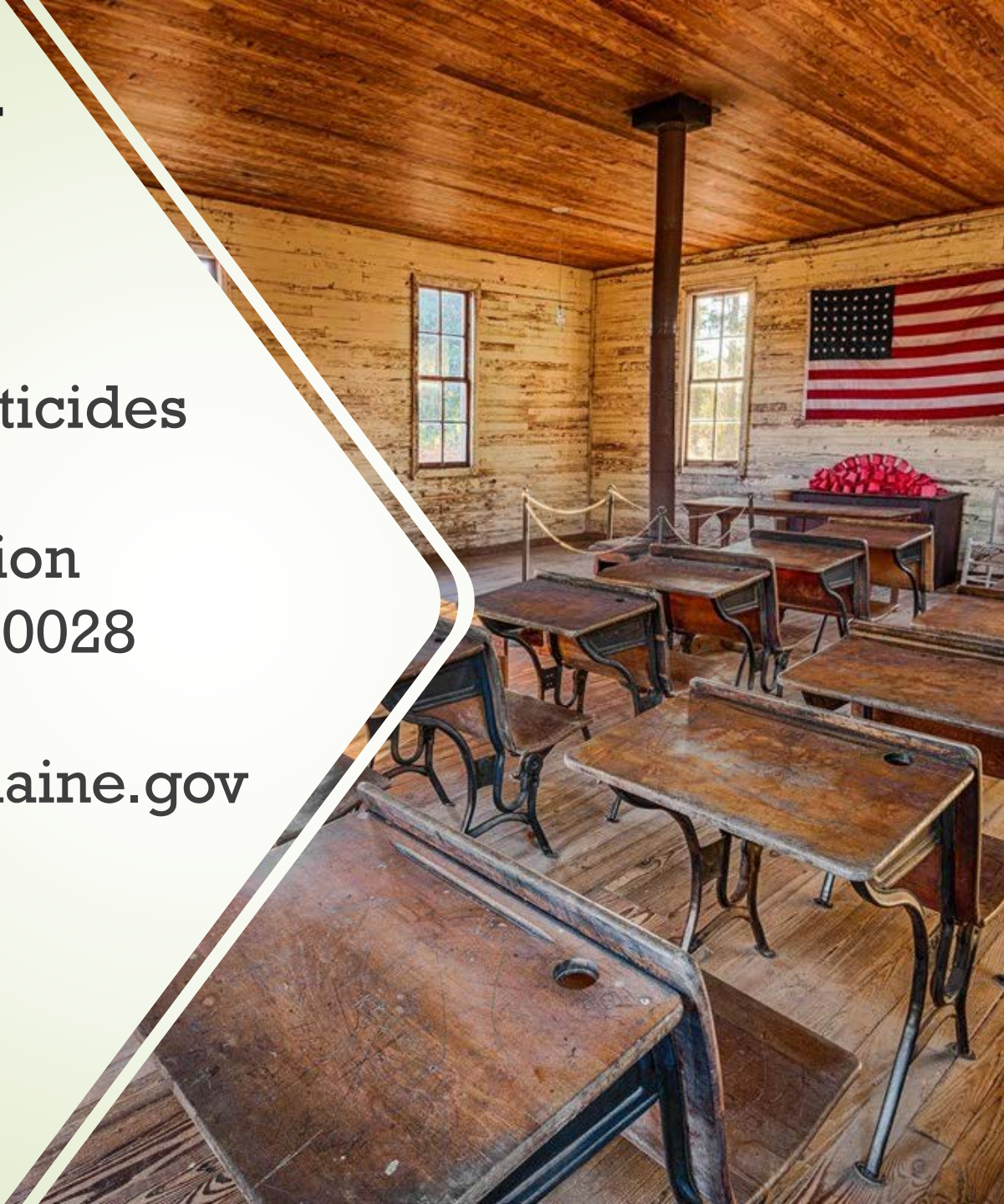


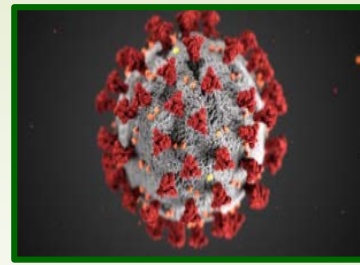
Label Review

➔ John Pietroski
Maine Board of Pesticides
Control
28 State House Station
Augusta ME 04333-0028
(207) 287-2731
john.t.pietroski@maine.gov



What is a pest?

- Bacteria, viruses (germs)
- Fungi, plant diseases
- Weeds
- Insects, mites, etc.
- Vertebrates



COVID-19



Potato Blight



Crab Grass



Carpenter Ants

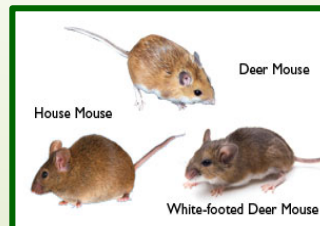
White Tail Deer



Starling



Mice



Squirrels



Skunks





Before using lethal methods to control pest wildlife contact the Maine Warden Service or District Wildlife Biologist



What is a pesticide?

Examples

Herbicides

Insecticides

Fungicides

Rodenticides

Bactericides

Virucides

Miticides

Slimecides

Plant growth regulators

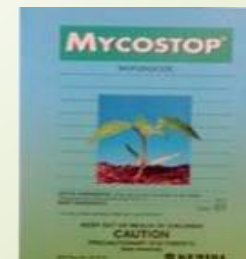
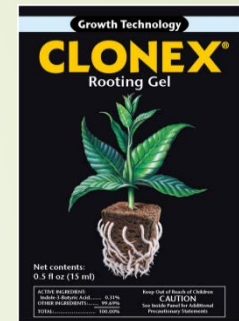


What is a pesticide?

- ▶ Any substance or mixture of substances intended for:
 - ▶ preventing,
 - ▶ destroying,
 - ▶ repelling, or
 - ▶ mitigating any pest
- ▶ And any plant regulator, defoliant or desiccant.
 - ▶ Does not include fertilizers or nutrients
 - ▶ Does not include beneficial organisms
 - ▶ Does not include traps or mechanical means

These are pesticides

- Disinfectants (*peroxides & bleaches*)
- Herbicides & Growth Regulators
- Rat & mouse baits
- Fungicides



No endorsement intended or implied

These are pesticides

- Insecticides
- Botanicals
- Biological controls



No endorsement intended or implied

These are pesticides

- Deer and rabbit repellents



- Insect repellents



No endorsement intended or implied

What about using products that are not labeled as pesticides?

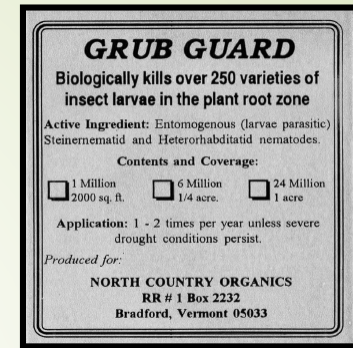
- Home chemistry is not recommended by the BPC
- Many of the materials used seem “safe” because we eat them or use them on our skin
- Exposure routes may be different
- What we eat may not be safe to breathe



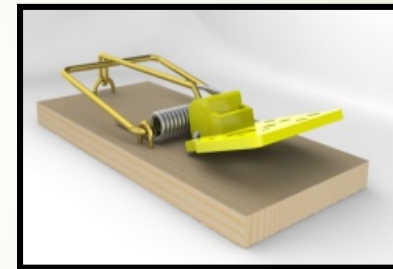
No endorsement intended or implied

What products are **NOT** pesticides?

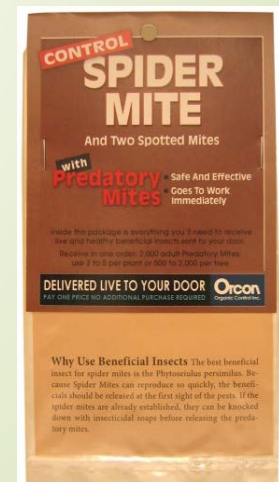
- Insect parasitic nematodes



- Rodent or insect traps



- Beneficial insects or mites



No endorsement intended or implied



SIGNAL WORDS

CAUTION -
Slightly
Toxic

WARNING -
Moderately
Toxic

DANGER -
Highly Toxic

20 CODE

12 345678901234

GROUP 1 HERBICIDE

UPPER SHEET

Roundup PRO[®]

Herbicide

Complete Directions for Use

A complete broad-spectrum postemergence herbicide for industrial, turf, ornamental, forestry, roadside, utility rights-of-way, and other listed terrestrial weed control.
(For a complete list of terrestrial use sites, see the Directions for Use section of this label.)

ACTIVE INGREDIENT:
*Glyphosate, N-(phosphonomethyl)glycine, in the form of its isopropylamine salt..... 41.0%
OTHER INGREDIENTS (including surfactant):..... 59.0%
100.0%

*Contains 480 grams of the active ingredient glyphosate, in the form of its isopropylamine salt, per liter or 4 pounds per U.S. gallon, which is equivalent to 356 grams of the acid, glyphosate, per liter or 3 pounds per U.S. gallon (30.4% by weight).

Keep out of reach of children

CAUTION See inside for additional precautions.

Causes eye irritation
Avoid contact with eyes or clothing

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 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.
<ul style="list-style-type: none"> Have the product container or labeling with you when calling a poison control center or doctor, or going for treatment. You can also call (314) 694-4000, collect, day or night, for emergency medical treatment information. This product is identified as Roundup PRO Herbicide, EPA Registration No. 524-475. 	

Read the entire label before using this product.
Use only according to label directions.

AVOID CONTACT OF THIS HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, AS SEVERE PLANT INJURY OR DESTRUCTION, COULD RESULT.


THIS IS AN END-USE PRODUCT. MONSANTO COMPANY DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

Read the "LIMIT OF WARRANTY AND LIABILITY" statement at the end of the label before buying or using. If terms are not acceptable, return at once unopened.

EPA Reg. No. 524-475

Packed for: MONSANTO COMPANY
800 N. LINDBERGH BLVD.
ST. LOUIS, MISSOURI, 63117 USA

How 'Risky' is the Product?

- ▶ Human Risk = toxicity times exposure
 - ▶ 'Signal Word' indicates toxicity
 - ▶ Exposure varies with 'Formulation' and application method
 - ▶ Environmental Risk (to bees, water, etc) varies with formulation, chemical composition and application method
- 

Pesticide Registration

- To be legal for use in Maine, all pesticides must be registered by both:

➔ EPA*



➔ BPC



*Some “reduced risk” pesticides have been deregulated by the EPA

- The first set of numbers is a EPA Reg # is the manufacture
- The second set of numbers is the product identification number.
- If there is a third set of numbers, it is the distributor's company number



Office of Pesticide Programs

Label Review Manual



<http://commons.wikimedia.org>, photo by "Dakota"



TRUSTED SINCE 1926
BONIDE

A Complete Fruit Tree Spray Concentrate

Controls both listed insects and listed diseases on fruit trees, flowers, ornamental evergreens and strawberries

Makes up to 10 gallons

ACTIVE INGREDIENTS:
 Captan (CAS No. 133-06-2) 11.76%
 Related derivatives 0.24%
 Malathion (CAS No. 121-75-5) 6.00%
 Carbaryl (CAS No. 63-25-2) 0.30%
***OTHER INGREDIENTS 81.70%**
TOTAL 100.00%

*Contains Petroleum Distillate
 EPA Est. No. 4-NY-1 EPA Reg. No. 4-122

Keep Out Of Reach Of Children
WARNING See Back Panel for First Aid and Additional Precautionary Statements
 Net Contents 8 FL.OZ. (236.5 ML)
 XXXXXXXX

EPA Reg # 4-122

Complete Fruit Tree Spray Concentrate

MAKES UP TO 21 GALLONS

AGWAY

Controls Both Listed Insects & Listed Diseases On...

- Fruit Trees
- Flowers
- Ornamental Evergreens
- Strawberries

ACTIVE INGREDIENTS
 Captan (CAS No. 133-06-2) 11.76%
 Related derivatives 0.24%
 Malathion (CAS No. 121-75-5) 6.00%
 Carbaryl (CAS No. 63-25-2) 0.30%
***OTHER INGREDIENTS 81.70%**
TOTAL 100.00%

*Contains Petroleum Distillate
 EPA Est. No. 4-NY-1 EPA Reg. No. 4-122-7138

KEEP OUT OF REACH OF CHILDREN WARNING
 (See back panel for First Aid and additional Precautionary Statements) 85202

Net Contents 16 FL. OZ. (1 Pt.)(473 ML)
 71291014

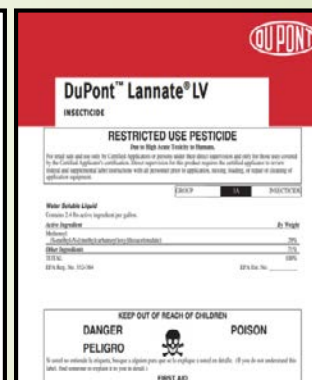
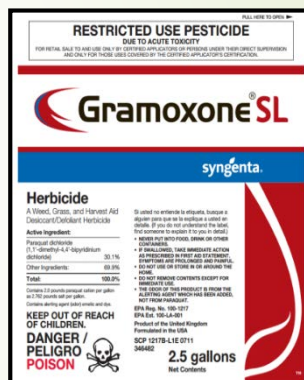
EPA Reg # 4-122-7138

Pesticide Classifications

- General Use – Lower risk, available over-the-counter

- Restricted Use – Higher risk, only available at licensed dealerships for purchase by licensed applicators

- State Restricted – Aquatic Herbicide Pesticides



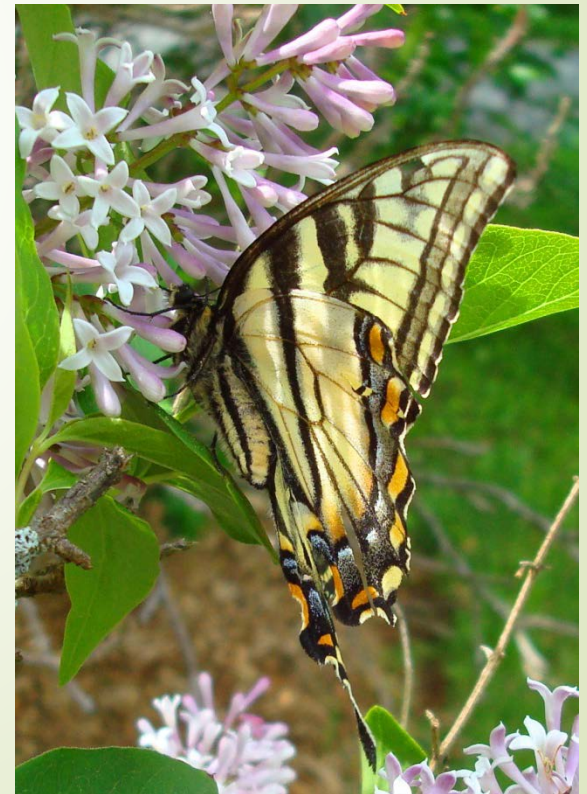
Pesticide Registration - Pesticide Labeling




- Labels are legal documents that provide directions for pesticide mixing, application, storage & disposal
- Users must comply with all instructions on the pesticide label & labeling
- FIFRA 2ee


Read the label!

- Can it be used in/on school property?
- Signal word (Caution, Warning or Danger)
- Precautionary statements
- PPE requirements
- Re-entry statements
- Environmental hazards
- Application restrictions
- Mode of action






The issue; the soccer field has a crab grass problem.

A decorative graphic consisting of several thin, curved lines in shades of grey and brown, originating from the left side of the slide and extending towards the text. A solid red arrow points from the left towards the text.

You contact a turf management company and they make a proposal to treat the field with a herbicide.

A decorative graphic consisting of several thin, curved lines in shades of gray and brown, originating from the left side and extending towards the text. A solid red arrow points from the left towards the text.

The company proposes to use Dimension 2EW, a specialty herbicide. Is it a good choice?

Pesticide

Label



Exercise

Remember, READ THE LABEL

It's the Law



Dow AgroSciences

Dimension[®]

2EW

SPECIALTY HERBICIDE

Provides control of listed annual grasses and broadleaf weeds in:

- Established lawns
- Commercial sod farms
- Ornamental and sports turf (including but not limited to sport fields, golf course fairways, roughs, tee boxes, unimproved turfgrass areas)
- Container grown ornamentals
- Field-grown ornamentals
- Landscape ornamentals
- Non-cropland such as: airports, borrow ditches, cemeteries, communication transmission lines, electrical power and utility rights-of-way, fencerows, gravel pits, hard-surface cracks, industrial sites, military lands, mining and drilling areas, non-irrigation ditch banks, gas and oil pads, parking lots, petroleum tank yards, pipelines, pump stations, railroads, roadsides, debris retention areas, service roads, solar fields, storage areas or yards, substations, vacant lots and other non-crop residential and commercial areas
- Natural areas (open space) such as: restoration sites, campgrounds, parks, prairie management, trails and trailheads, recreation areas, wildlife openings and wildlife habitat and management areas
- Christmas tree farms

In New York State, this product may be used by commercial applicators only, at no more than 2 pints (0.5 lb active ingredient) per acre per year. In Nassau and Suffolk counties of New York, do not exceed 1 pint per acre per year of this product (equivalent to 0.25 lb of active ingredient per acre).

GROUP	3	HERBICIDE
-------	---	-----------

Active ingredient dithiopyr: 5,5'-dimethyl 2-(difluoromethyl)-4- [2-methylpropyl]-6-(trifluoromethyl)- 3,5-pyridinedicarbothioate.....	24%
Other ingredients.....	76%
Total.....	100%

Contains petroleum distillates.
Contains 240 grams per liter or 2 lb active ingredient per U.S. gallon.

Keep Out of Reach of Children WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Agricultural Use Requirements

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

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 at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-950-5964.

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

EPA Reg. No. 62719-542

EPA Est. 5925-9A-01
99033373

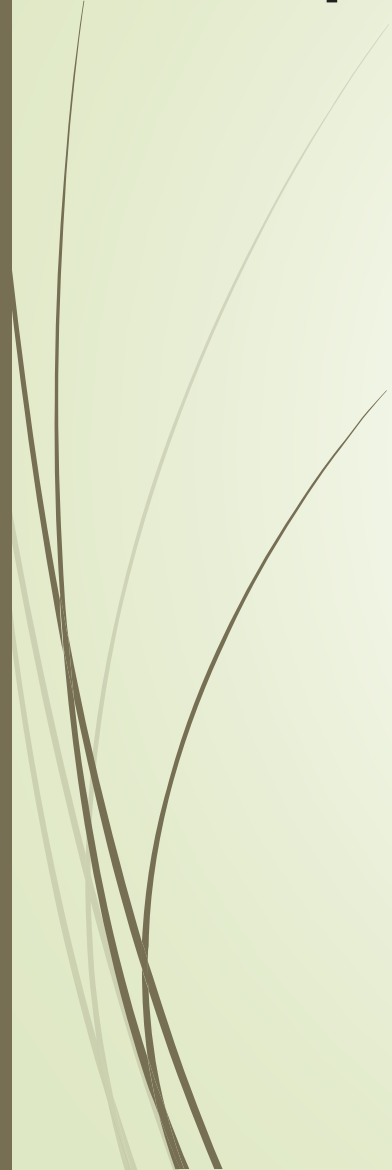
[®]Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

Produced for
Dow AgroSciences LLC
9200 Zionsville Road
Indianapolis, IN 46268

NET CONTENTS 2.5 GAL



Who can I call with specific questions about Dimension 2EW?



Who can I call with specific questions about Dimension 2EW?

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

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


EPA Reg. No. 62719-542

EPA Est. 5905-IA-01
99033373

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

Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

You can call the manufacturer



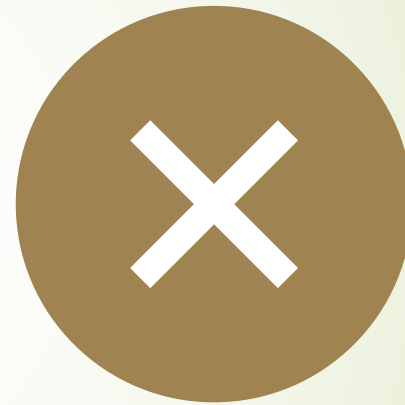
Can Dimension 2EW be used to treat crabgrass?

1. True
2. False

Can Dimension 2EW be used to treat crabgrass?



TRUE



FALSE

Can
Dimension
2EW be
used to
treat
crabgrass?

This product will not control emerged broadleaf weeds or grasses (except for crabgrass in early stages of growth).

Common Name


Scientific Name

Grasses

barley
barnyardgrass
bluegrass, annual
brome
crabgrass, large
crabgrass, smooth
crabgrass, southern


Hordeum spp.
Echinochloa crus-galli
Poa annua
Bromus spp.
Digitaria sanguinalis
Digitaria ischaemum
Digitaria ciliaris





Dimension 2EW is a Moderately Risk Pesticide ?

1. True
2. False



Dimension 2EW is a Moderate Risk Pesticide ?



TRUE



FALSE



When
can the
soccer
team
return to
practice
?

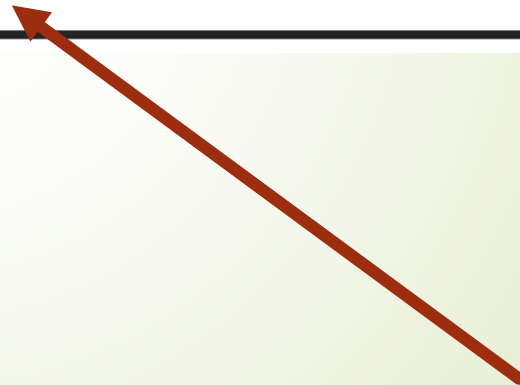


When can
the soccer
team return
to
practice?

Non-Agricultural Use Requirements

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

- Keep unprotected persons out of treated area until sprays have dried.



Dimension 2EW is a _____?

Herbicide

Insecticide

Rodenticide

Dimension 2EW is a _____?

Herbicide



Dow AgroSciences

Dimension[®]

2EW

SPECIALTY HERBICIDE

Provides control of listed annual grasses and broadleaf weeds, including:

- Established lawns
- Commercial and sports turf (including but not limited to sport fields, golf course fairways, roughs, tee boxes, unimproved turfgrass areas)
- Container grown ornamentals
- Field-grown ornamentals
- Landscape ornamentals
- Non-cropland such as: airports, borrow ditches, cemeteries, communication transmission lines, electrical power and utility rights-of-way, fence-rows, gravel pits, hard-surface cracks, industrial sites, military lands, mining and drilling areas, non-irrigation ditch banks, gas and oil pads, parking lots, petroleum tank yards, pipelines, pump stations, railroads, roadsides, debris retention areas, service roads, solar fields, storage areas or yards, substations, vacant lots and other non-crop residential and commercial areas
- Natural areas (open space) such as: restoration sites, campgrounds, parks, prairie management, trails and trailheads, recreation areas, wildlife openings and wildlife habitat and management areas
- Christmas tree farms

In New York State, this product may be used by commercial applicators only, at no more than 2 pints (0.5 lb active ingredient) per acre per year. In Nassau and Suffolk counties of New York, do not exceed 1 pint per acre per year of this product (equivalent to 0.25 lb of active ingredient per acre).

GROUP	3	HERBICIDE
-------	---	-----------

Active ingredient:		
dithiopyr (5,5'-dimethyl 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-3,5-pyridinedicarbonylate)	3.4%	
Other ingredients	76%	
Total	100%	

Contains petroleum distillates.
Contains 240 grams per liter or 2 lb active ingredient per U.S. gallon.

Keep Out of Reach of Children WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Agricultural Use Requirements

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

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 at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-960-5868.

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

EPA Reg. No. 62719-542

EPA Est. 5925-J4-01
9903373

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

Produced for
Dow AgroSciences LLC
9200 Zionsville Road
Indianapolis, IN 46268

NET CONTENTS 2.5 GAL

The Environmental Protection Agency Reg No. for Dimension 2EW

?

1. 62719-542

2. 5905-IA-01

3. 99033373



Provides control of listed annual grasses and broadleaf weeds in:

- Established lawns
- Commercial and farms
- Ornamental and sports turf (including but not limited to sport fields, golf course fairways, roughs, tee boxes, unimproved turfgrass areas)
- Container grown ornamentals
- Field-grown ornamentals
- Landscape ornamentals
- Non-cropland such as: airports, borrow ditches, cemeteries, communication transmission lines, electrical power and utility rights-of-way, fence rows, gravel pits, hard-surface cracks, industrial sites, military lands, mining and drilling areas, non-irrigation ditch banks, gas and oil pads, parking lots, petroleum tank yards, pipelines, pump stations, railroads, roadbeds, debris retention areas, service roads, solar fields, storage areas or yards, substations, vacant lots and other non-crop residential and commercial areas
- Natural areas (open space) such as: restoration sites, campgrounds, parks, prairie management, trails and trailheads, recreation areas, wildlife openings and wildlife habitat and management areas
- Christmas tree farms

In New York State, this product may be used by commercial applicators only, at no more than 2 pints (0.5 lb active ingredient) per acre per year. In Nassau and Suffolk counties of New York, do not exceed 1 pint per acre per year of this product (equivalent to 0.25 lb of active ingredient per acre).

GROUP	3	HERBICIDE
-------	---	-----------

Active ingredient dimethyl 2,5-dimethyl 2-(difluoromethyl)-4- [2-(methylpropyl)-4-trifluoromethyl]- 3,5-pyridinedicarboxylate	24%
Other ingredients	76%
Total	100%

Contains picloram herbicide.
Contains 240 grams per liter or 2 lb active ingredient per U.S. gallon.

**Keep Out of Reach of Children
WARNING AVISO**
(Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

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

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 Risk of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.
In case of emergency involving health or the environment involving this product, call 1-800-868-5864.

Agricultural Chemical: Do not mix or store with food, feeds, drugs or clothing.
EPA Reg. No. 62719-542 EPA Est. 5905-IA-01 99033373

*Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.
Produced for
Dow AgroSciences LLC
9300 Zionsville Road
Indianapolis, IN 46268

NET CONTENTS 2.5 GAL

The Environmental Protection Agency Reg No. for Dimension 2EW

?

1. 62719-542



Provides control of listed annual grasses and broadleaf weeds in:

- Established lawns
- Commercial and farms
- Ornamental and sports turf (including but not limited to sport fields, golf course fairways, roughs, tee boxes, unimproved turfgrass areas)
- Container grown ornamentals
- Field-grown ornamentals
- Landscape ornamentals

Non-cropland such as: airports, borrow ditches, arterials, communication transmission lines, electrical power and utility rights-of-way, fence rows, gravel pits, hard-surface cracks, industrial sites, military lands, mining and drilling sites, non-irrigation ditch banks, gas and oil pads, parking lots, petroleum tank yards, pipelines, pump stations, rail yards, roadbeds, debris retention areas, service roads, site fields, storage areas or yards, substations, vacant lots and other non-crop residential and commercial areas.

- Natural areas (open space) such as riparian areas, campgrounds, parks, prairie management, trails and trailheads, recreation areas, wildlife openings and wildlife habitat and management areas
- Christmas tree farms

In New York State, this product may be used by commercial applicators only, at no more than 2 pints (0.5 lb active ingredient) per acre per year. In Nassau and Suffolk counties of New York, do not exceed 1 pint per acre per year of this product (equivalent to 0.25 lb of active ingredient per acre).

GROUP	3	HERBICIDE
-------	---	-----------

Active ingredient
 diethyl 2,5-dimethyl 2-(difluoromethyl)-4-(2-methylpropyl)-6-trifluoromethyl-1,3,5-pyridinadicarboxate 24%
 Other ingredients 76%
 Total 100%

Contains picloram herbicide.
 Contains 240 grams per liter or 2 lb active ingredient per U.S. gallon.

**Keep Out of Reach of Children
 WARNING
 AVISO**

(Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

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

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 Risk of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency involving health or the environment involving this product, call 1-800-969-5864.

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

EPA Reg. No. 62719-542 EPA Est. 5905-IA-08 39033373

*Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow
 Produced for
 Dow AgroSciences LLC
 9300 Zionsville Road
 Indianapolis, IN 46268

NET CONTENTS 2.5 GAL



What are the environmental issues when using Dimension 2EW is _____?

What are the environmental issues when using Dimension 2EW is _____?

Environmental Hazards

This product is toxic to fish and highly toxic to other aquatic organisms including oysters and shrimp. Use with care when applying to turf areas adjacent to any body of water. Drift and runoff from treated turf may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

The percentage of the active ingredient dithiopyr in Dimension 2EW is _____?

1. 24.00%
2. 76.00%
3. 100.00%

The percentage of the active ingredient dithiopyr in Dimension 2EW is _____?

1. 24.00%
2. 76.00%
3. 100.00%

Active Ingredient	
dithiopyr: S,S'-dimethyl 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-3,5-pyridinedicarbothioate.....	24%
Other Ingredients.....	<u>76%</u>
Total.....	100%

Does the turf company need to post the treated field?



Does the turf company need to post the treated field?

In addition to the notice provisions above, whenever pesticide applications not exempted by Section 3 are performed in a school building or on school grounds, a sign shall be posted at each point of access to the treated area and in a common area of the school at least two working days prior to the application and for at least forty-eight hours following the application. Posting of the notification signs as required by this rule satisfies the posting requirements of Chapter 28 of the Board's rules (CMR 01-026 Chapter 28).

CAUTION **PESTICIDE APPLICATION**

DATE & TIME OF APPLICATION ▼

RE-ENTRY PRECAUTIONS ▼

SIGN REMOVAL DATE ▼

PESTICIDE APPLICATION COMPANY & PHONE NO. ▼





Where do you start?— Don't forget IPM!

Is a pesticide the right answer?

- ▶ Are there non-chemical strategies that can be used to control the pest?
- ▶ Is the pest still present?
- ▶ Are there enough pests to require control? (threshold)
- ▶ Is the pest in a susceptible stage?

STAY SAFE,
EVERYONE!

