



NOTICE OF WEED CONTROL APPLICATION

Date of Application: October 11, 2026

Location: Mesa Baseball fields

Reason for Application: Post and Pretreatment of the infields and outfields for weed control.

Product Manufacturer Name: Celsius WG Herbicide

-EPA registration no. 432-1507

-Active ingredients: Thien carbazon-methyl, Iodosulfuron-methyl-sodium, Dicamba

-Precautionary statement: Causes moderate eye irritation. Harmful if swallowed or inhaled.

Product Manufacturer Name: Lesco Dimension 0.27G Turf and Ornamental Herbicide

-EPA registration no. 62719-429-10404

-Active ingredients: Dithiopyr: 3,5-pyridinedicarbothioic acid, 2- (difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-S, S-dimethyl ester.

-Precautionary statement: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Product Manufacturer Name: Speedzone

-EPA registration no. 2217-1053

-Active ingredients: 2,4 -D Ethylhexyl ester, Mecoprop -p DMA salt, Dicamba, DMA salt, Carfentrazone-ethyl

-Precautionary statement: Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes, or clothing.

***No applications within 25 feet of playgrounds**

***See attached label and SDS sheet**

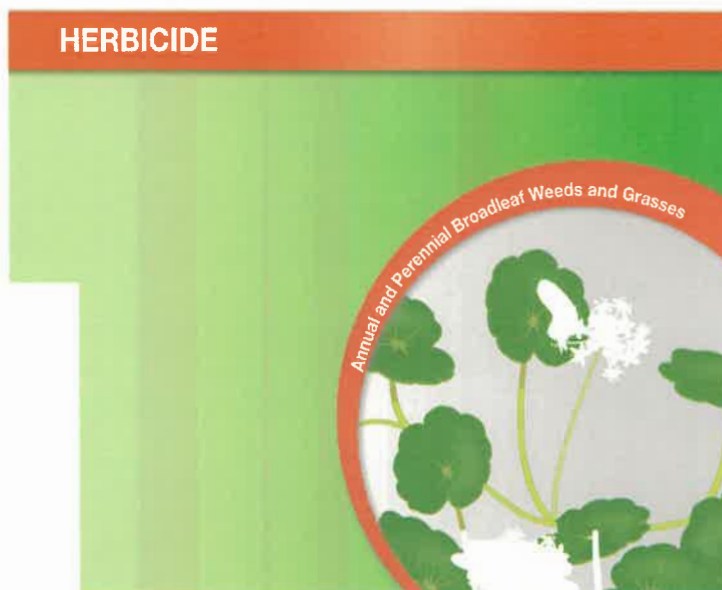
***Dates are subject to change due to weather**



Celsius
WG

THIENCARBAZONE-METHYL	2	
IODOSULFURON	2	GROUP
DICAMBA	4	HERBICIDE

HERBICIDE



A Herbicide for the Postemergence Control of Annual and Perennial Broadleaf Weeds and Grasses in Warm-Season Turf Types (St. Augustinegrass, Bermudagrass, Centipedegrass, Zoysiagrass) listed in this label in Commercial and Residential Sites*

ACTIVE INGREDIENTS: Thiencarbazone-methyl (CAS Number 317815-83-1)..... 8.7%
Iodosulfuron-methyl-sodium (CAS Number 144550-36-7) 1.9%
Dicamba (CAS Number 1918-00-9) 57.4%

OTHER INGREDIENTS: 32.0%
TOTAL: 100.0%

CELSIUS® WG HERBICIDE is formulated as a 68% water dispersible granule

*DO NOT use on bahiagrass, seashore paspalum or cool-season turf types, including tall fescue, fine fescue, Kentucky bluegrass, perennial ryegrass, or creeping bentgrass.

EPA Reg. No. 432-1507

EPA Est. No. 264-DEU-001

STOP - READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN

CAUTION

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.)

See Back Panel for First Aid Instructions and Booklet for Complete
Precautionary Statements and Directions for Use.

For **MEDICAL** and **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577
For **PRODUCT USE** Information Call 1-800-331-2887

Net Contents

10 Oz (283.5 Gr)

79714858

US81769664F 210901AV2

Bayer

Produced for:
Bayer Environmental Science
A Division of Bayer CropScience LP
5000 CentreGreen Way, Suite 400
Cary, NC 27513
Product of Germany



DIMENSION™ 0.27G Turf and Ornamental Herbicide

For season-long control or suppression of listed annual grasses and broadleaf weeds in ornamental landscapes, established lawns and ornamental turf (including golf course fairways, roughs and tee boxes) and container field-grown nursery ornamentals.

Not for use on turf being grown for sale or other commercial use as sod, or for ornamental production, or for research purposes.

For use on plants intended for aesthetic purposes or climatic modification and being grown in before plantations, ornamental gardens or parks, or on golf courses or lawns and grounds.

The state of New York, this product may be applied only by commercial applicators at no more than 185 lb (5 lb active ingredient) per acre (4.25 lb per 1000 sq ft) per year. Use of this product in Nassau and Suffolk counties of New York is prohibited.

Active ingredient:

thiopyr: 3,5-pyridinedicarboxic acid, 2- (difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-S,S-dimethyl ester.....0.27%

Other ingredients.....99.73%

Total.....100.00%

This product contains 0.135 pounds of the active ingredient, thiopyr, per 50 pound bag.

KEEP OUT OF REACH OF CHILDREN CAUTION

See back or container side panel for additional Precautionary Statements

Caution: 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 harm is unsatisfactory, return at once unopened.

Use 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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

AUTHORITY: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

FIRST AID

- If in eyes:
- 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 day or night, for emergency medical treatment information.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Drift and runoff may adversely affect aquatic organisms. Do not apply directly to water, or to areas where surface water is present, or to material areas below the mean high water mark. Do not contaminate water when disposing of equipment/washwaters.

Directions For Use

Use all directions carefully before applying this product.

Use Directions for Turf

LESCO Dimension® 0.27G Turf and Ornamental Herbicide provides season-long control of crabgrass and control or suppression of other listed annual grasses and broadleaf weeds in established lawns and ornamental turfs, (including golf course fairways, roughs, and tee boxes), and container and field-grown nursery ornamentals. When used according to label directions, this product will not harm nearby established ornamentals identified as "Tolerant Ornamentals" elsewhere in this label.

Precautions for Turf

Do not use this product on golf greens.

Do not apply this product to Colonial bentgrass.

For best results, cultural practices that disturb the soil, such as core, spike, hydro-aeration, or verticutting, and topdressing should be done before application of this product. This product should not be applied until turfgrasses have recovered an stresses related to these or other mechanical operations. Irrigation or rainfall within 7 days after application will improve the performance of this product.

Reseeding or Springing: Reseeding, or springing of turfgrasses into areas that have been previously treated with this product should be delayed until 12 weeks from the time of application. If overseeding with perennial ryegrass, delay reseeding at least 8 weeks after application. When reseeding or overseeding, proper cultural practices such as soil cultivation, irrigation and fertilization should be followed. For best results, use mechanical or power seeding equipment (all seed) designed to give good seed-to-soil contact.

This product may be used on seeded, sodded, or sprigged turfgrasses that are well established. Allow the turf to develop a good root system and uniform stand before application. Use of this product on turfgrasses not well established, weakened by drought, moisture, chemical injury, insects, disease, or temperature extremes that cause stress will increase the potential for injury. Allow turfgrasses weakened by these stresses to recover before application of this product.

This product may be applied as a single application or as a split application in the spring, summer or fall.

This product will prevent germination of annual bluegrass.

This product will not affect established annual bluegrass. If maintenance of annual bluegrass is desired, do not use this product during time of annual bluegrass germination. For AZ, CA, NV, OR, WA, NM, ID, MT and UT this product may contribute to thinning or stand reduction in established stands of annual bluegrass.

Do not use clippings from treated turf for mulching around vegetables or fruit trees.

Do not allow domestic animals to feed or lounge on the treated turf or clippings from treated turf.

When applied as directed under the conditions described, the following established turfgrasses are tolerant to this product:

Cool-Season Grasses

bentgrass, creeping	<i>Agrostis stolonifera</i>
bluegrass, Kentucky	<i>Poa pratensis</i>
fescue, fine	<i>Festuca rubra</i>
fescue, tall	<i>Festuca arundinacea</i>
ryegrass, perennial	<i>Lolium perenne</i>

Warm-Season Grasses

bahia grass	<i>Paspalum notatum</i>
bermudagrass	<i>Cynodon dactylon</i>
buffalograss	<i>Buchloe dactyloides</i>
carpetgrass	<i>Axonopus affinis</i>
centipedegrass	<i>Eremochloa ophiuroides</i>
kiyugrass	<i>Pennisetum clandestinum</i>
seashore paspalum	<i>Paspalum vaginatum</i>
St. Augustinegrass	<i>Stenotaphrum secundatum</i>
zoysia grass	<i>Zoysia japonica</i>

† Do not apply this product to Colonial bentgrass. Use of this product on certain varieties of creeping bentgrass, such as 'Carmen', 'Cohesive', or 'Seaside' will result in undesirable turf injury. Not all varieties of creeping bentgrass have been tested.

†† The following fine fescue varieties have been found to be sensitive to this product: 'Atlanta', 'Banner', 'Beauty', 'Bilgirt', 'CF-2', 'Enjoy', 'HF-93', 'Highlight', 'Kato', 'Jamestown', 'Kokoi', 'Majesta', 'May', 'Pennline', 'Tamera', 'Tajana', 'Waldorf', and 'Waldine'.

Application Equipment and Instructions

Apply the product with drop or rotary-type spreaders designed to apply granular herbicides. Calibrate application equipment prior to usage, and apply this product uniformly over the turfgrass area. A more uniform application can be made by spreading half of the required amount over the area and then applying the remaining half at a right angle to the previous direction of application. Avoid the use of spreaders that apply granular materials in narrow rows or concentrated bands. Avoid streaking, skips, or overlaps during application. Check equipment frequently to ensure equipment is functioning properly and applying uniform distribution of granules.

Preemergence Control of Annual Grasses and Annual Broadleaf Weeds

Used as directed, this product will control or suppress the following annual grass and broadleaf weeds when applied prior to their emergence. This product will not control established weeds, except for crabgrass in early stages of development, but only if application is made to crabgrass prior to the 3-leaf stage of growth or first tiller. Use the higher recommended use rate where weed infestations are dense and/or applications are made early and longer residual control is desirable.

Weeds Controlled and Use Rate Recommendations

Weeds Controlled	Suggested Use Rate Per Application	
	Pounds/Acre	Pounds/1000 sq ft
barley brome crabgrass, large crabgrass, smooth crabgrass, southern dallis grass (seedling) foxtail, giant foxtail, green foxtail, yellow barnyard grass chickweed clover, hop crabgrass, tropical crowfootgrass dichondra Carolina lespedeza, common kiyugrass Mary's grass marehail medic, black muhly weed mustard oats, wild oxalis, buttercup oxalis (creeping woodsorrel) oxalis (yellow woodsorrel) pineappleweed ryegrass, annual ryegrass, perennial sambur smulgrass speedwell, corn spurge, garden spurge, prostrate spurge, spotted bluegrass, annual bittercrass carpetweed chickweed geranium, Carolina goosegrass	100 to 150 ††	2.3 to 3.4 †
barnyard grass chickweed clover, hop crabgrass, tropical crowfootgrass dichondra Carolina lespedeza, common kiyugrass Mary's grass marehail medic, black muhly weed mustard oats, wild oxalis, buttercup oxalis (creeping woodsorrel) oxalis (yellow woodsorrel) pineappleweed ryegrass, annual ryegrass, perennial sambur smulgrass speedwell, corn spurge, garden spurge, prostrate spurge, spotted bluegrass, annual bittercrass carpetweed chickweed geranium, Carolina goosegrass	150 to 185 ††	3.4 to 4.25 †
barnyard grass chickweed clover, hop crabgrass, tropical crowfootgrass dichondra Carolina lespedeza, common kiyugrass Mary's grass marehail medic, black muhly weed mustard oats, wild oxalis, buttercup oxalis (creeping woodsorrel) oxalis (yellow woodsorrel) pineappleweed ryegrass, annual ryegrass, perennial sambur smulgrass speedwell, corn spurge, garden spurge, prostrate spurge, spotted bluegrass, annual bittercrass carpetweed chickweed geranium, Carolina goosegrass	185 ††	4.25 ††

† Higher use rates are recommended where weed infestations are heavy and/or dense.

†† Use of this product at this rate will provide only partial control and/or suppression of listed weeds.

Poa Annua (Annual bluegrass) Control

Apply LESCO Dimension® 0.27G Turf and Ornamental Herbicide for preemergence control of Poa annua (annual bluegrass) at a rate of 0.38 to 0.5 lb active ingredient per acre. This is equivalent to 150 to 185 pounds per acre. Use the higher recommended use rates where weed infestations are dense and/or applications are made early and longer residual control is desirable.

- Apply 5 to 8 weeks before overseeding bermudagrass with perennial ryegrass. Specific to perennial ryegrass; not for use on Poa trivialis or bentgrasses.
- Minimum seedling rate of perennial ryegrass is 400 lb per acre.
- Use limited to fairways and roughs.
- Perennial varieties of Poa annua (var. repens) may not be controlled as well as the true annual.
- Do not apply earlier than 16 weeks after overseeding unless injury to the ryegrass can be tolerated.
- A follow-up treatment 16 weeks after overseeding an early season crabgrass treatment and helps suppress some winter annual broadleaf weeds.

Restrictions:

- Do not apply more than 185 pounds of this product per acre per application and no more than 3 applications per year (555 pounds) of the product per acre per year.
- In New York State, this product may only be used by Commercial Applicators at no more than 185 pounds per acre (4.25 lb/1000 sq ft), (0.5 lb active ingredient per acre) per year; and is prohibited from use in Nassau and Suffolk Counties.

Ornamentals (Landscape, Field Grown, and Container Grown)

LESCO Dimension® 0.27G Turf and Ornamental Herbicide provides preemergence control of listed annual grass and broadleaf weeds in ornamental plantings. Ornamental plants on this label have shown tolerance to this product when applied as directed. It is impossible, however, to evaluate tolerance for all ornamental plant species or varieties or under all possible growing conditions. Under your growing conditions, stressed areas involving only a few plants should be treated for tolerance evaluation prior to large-scale applications.

Use Rates: Refer to the following table for treatment dosage for treating small areas.

Pounds Product/Acre	Duncans	Duncans (Grass)
185	Product/1000 Square Feet	Product/100 Square Feet
	64	6.4 (183 grams)

Application Timing and Use Recommendations

This product is a preemergence herbicide that will not control established weeds. Make applications prior to weed seed germination or to bare ground. The best weed control is obtained when applied to soil that is free of clods, weeds and debris such as leaves. Prior to making an application, controlling vegetation by hand weeding, cultivation or with a postemergence herbicide. To be effective, LESCO Dimension® 0.27G Turf and Ornamental Herbicide must be activated by 1/2 inch or more of rainfall or irrigation prior to germination of target weeds. Once the treatment is activated, avoid excessive soil disruption that may break down the herbicide barrier. Manual surface disruption such as raking should not break down the herbicide barrier.

Weeds Controlled

Used as directed, this product will control or suppress the following annual grass and broadleaf weeds when applied prior to their emergence. This product will not control established weeds, except for crabgrass in early stages of development, but only if application is made to crabgrass prior to the 3-leaf stage of growth or first tiller. Therefore, the area to be treated should be free of weeds prior to application. Repeat applications may be made during the growing season at 3 to 4 month intervals to maintain weed control.

Weeds controlled or suppressed by LESCO Dimension 0.27G when applied at 185 pounds per acre:

Annual Grasses	
Common Name	Scientific Name
timothy	<i>Phleum sp.</i>
barnyard grass	<i>Echinochloa crus-galli</i>
bluegrass, annual	<i>Poa annua</i>
brome	<i>Bromus sp.</i>
crabgrass, large	<i>Oryza latifolia</i>
crabgrass, smooth	<i>Oryza sativum</i>
crabgrass, southern	<i>Oryza rufipolis</i>
crowfootgrass	<i>Dactyloctenium aegyptium</i>
crabgrass (seedling)	<i>Paspalum dilatatum</i>
foxtail, giant	<i>Setaria faberii</i>
foxtail, green	<i>Setaria vertic</i>
foxtail, yellow	<i>Pennisetum glaucum</i>
goosegrass	<i>Echinochloa crus-galli</i>
kiyugrass	<i>Pennisetum clandestinum</i>
oats, wild	<i>Avena fatua</i>
ryegrass (annual & perennial)	<i>Lolium sp.</i>
sambur	<i>Cenchrus sp.</i>
smulgrass	<i>Sporobolus indicus</i>
Broadleaf Weeds	
Common Name	Scientific Name
hibiscus	<i>Hibiscus sp.</i>
carpetweed	<i>Mollis verticillata</i>
chickweed	<i>Stellaria sp.</i>
geranium, Carolina	<i>Geranium carolinianum</i>
henbit	<i>Lamium sp.</i>
lynnweed, prostrate	<i>Polygonum aviculare</i>
lespedeza, common	<i>Lespedeza stibila</i>
marehail	<i>Hippuris vulgaris</i>
medic, black	<i>Medicago lupulina</i>
muhly weed	<i>Festuca villosa</i>
mustard	<i>Brassica sp.</i>
oxalis, buttercup	<i>Oxalis pes-caprae</i>
parsley-piert	<i>Achillea millefolium</i>
pigweed, redroot	<i>Amaranthus retrofractus</i>
primroseweed	<i>Abutilon nuttallianum</i>
purple, common	<i>Portulaca oleraceae</i>
rock, London	<i>Silene maritima</i>
shepherdspurse	<i>Capsella bursa-pastoris</i>
speedwell, corn	<i>Veronica ananalis</i>
spurge, garden	<i>Euphorbia hirta</i>
spurge, prostrate	<i>Euphorbia humifusa</i>
spurge, toothed	<i>Euphorbia maculata</i>
woodsorrel, creeping	<i>Oxalis corniculata</i>
woodsorrel, yellow	<i>Oxalis stricta</i>

Application Equipment and Instructions

Apply this product with drop or rotary-type spreaders designed to apply granular herbicides. Avoid the use of spreaders that would apply this product in narrow rows or concentrated bands. Before each application, calibrate the spreader according to the equipment manufacturer's directions for adjusting the spreader settings such that the spreader delivers the appropriate application rate recommended above. Apply this product uniformly over the area to be treated. A more uniform application can be made by spreading half of the required amount over the area and then applying the remaining half at a right angle to the previous direction of application. Avoid streaking, skips, or overlaps during application.

Check equipment frequently to ensure equipment is functioning properly and applying uniform distribution of granules. Shortly after application apply overhead irrigation to activate the herbicide and wash LESCO Dimension® 0.27G Turf and Ornamental Herbicide from plant surface onto soil surface.

Use Precautions for Ornamental Plantings:

- Only apply this product to established ornamentals as directed in the Tolerant Ornamental table below.
- Do not incorporate this product into soil. Disruption of active ingredient and possible injury to plant roots may occur.
- Do not apply around ornamental plants that have been weakened or are under stress (due to drought, flooding, excessive herbicide or soil salts, wind injury, hail, frost damage, winter injury, injury from previously applied pesticides or injury due to insects, nematodes or diseases).
- Do not make applications when weather conditions favor drift to non-target areas. This product may injure foliage of non-target plants.
- Do not apply this product on grasses grown for seed.
- Do not graze livestock or feed forage cut from areas treated with this product.
- Do not apply this product in enclosed structures and greenhouses.
- Do not apply another herbicide within 4 weeks of application of this product.
- Do not apply this product to bare roots of ornamental plants as injury may result. Following transplanting, care must be taken that soil to planting mixes have settled firmly through irrigation, rainfall or packing and that there are no cracks that would allow direct contact of this product to the plant roots or plant injury may occur.

Treatment of Ornamental species not listed on this label:

It is impossible to evaluate tolerance to this product on all ornamental species or varieties or under all growing conditions. Users who wish to use LESCO Dimension® 0.27G Turf and Ornamental Herbicide on species not recommended on this label may determine the suitability for use by treating a small number of plants at a recommended rate under your growing conditions. Treated plants should be observed for any symptoms of herbicidal injury such as foliar damage, reduced vigor or stand reduction during 30 to 60 days of normal growing conditions to determine if the treatment is non-injurious.

Restrictions:

- Do not apply more than 185 pounds of this product per acre per application and no more than 3 applications (555 lb) of the product per acre per year.
- In New York State, this product may only be used by Commercial Applicators at no more than 185 pounds per acre (4.25 pounds/1000 sq ft), (0.5 lb active ingredient per acre) per year; and is prohibited from use in Nassau and Suffolk Counties.

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

Pesticide Storage: Store this product only in its original container. In case of spill, sweep up material and dispose of material according to label directions.

Pesticide Disposal: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

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 in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Net Weight: 50 lb (22.7 kg)

EPA REG. NO. 62719-429-10404

EPA EST. NO. 961-PA-01 (I), 961-L-01 (D), 8378-IN-1 (K), 9404-FL-1 (C), 59144-GA-1 (A), 32802-MD-1 (B), 37351-CO-1 (E), 82757-OH-001 (M), 82757-FL-001 (S), 82757-MA-002 (H), 89135-AZ-001 (A), 69759-OR-002 (MAS) 69759-OR-004 (BAN).

First letter of lot code indicates manufacturing site.

F1560
Distributed by: LESCO, Inc.
1385 East 36th Street
Cleveland, OH 44114-4114

702265-PG1
PP

CLICK HERE TO JUMP TO USE DIRECTIONS



SpeedZone®

BROADLEAF HERBICIDE FOR TURF

ACTIVE INGREDIENTS:

Carfentrazone-ethyl	0.62%
2,4-D, 2-ethylhexyl ester	28.57%
Mecoprop-p acid	5.88%
Dicamba acid	1.71%

INERT INGREDIENTS:	63.22%
TOTAL	100.00%

THIS PRODUCT CONTAINS:

0.05 lb. Ethyl α ,2-dichloro-5-[4(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoate per gallon or 0.62%.
1.53 lbs. 2,4-dichlorophenoxyacetic acid equivalent per gallon or 18.95%.
0.48 lb. (+)-R-2-(2-methyl-4-chlorophenoxy)propionic acid equivalent per gallon or 5.88%.
0.14 lb. 3,6-dichloro-o-anisic acid equivalent per gallon or 1.71%.
Contains petroleum distillates, xylene or xylene range aromatic solvent.
Isomer Specific by AOAC Methods.

KEEP OUT OF REACH OF CHILDREN

CAUTION

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.)

See below for First Aid and additional Precautionary Statement.



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

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT:

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category E on a EPA chemical resistance category selection chart.

NON-WPS USES:

Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) – in general, only agricultural-plant uses are covered by the WPS – must wear the following:

- When mixing, loading or applying this product, wear long-sleeved shirt, long pants, socks, shoes, and chemical-resistant gloves.

Personal Hygiene Statement For Non-WPS Uses: After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

Engineering Control Statements For Non-WPS Uses:

Containers over 1 gallon and less than 5 gallons: Persons engaged in open pouring of this product must also wear coveralls or a chemical resistant apron.

Containers of 5 gallons or more: Do not open-pour from this container. A mechanical system (such as probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

WPS USES:

Applicators and other handlers who handle this pesticide for any uses covered by the Worker Protection Standard (40 CFR Part 170) – in general agricultural-plant uses are covered – must wear the following:

- long-sleeved shirt and long pants.
- chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber or Viton gloves.
- shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned.

Engineering Control Statements For WPS Uses:

Containers over 1 gallon and less than 5 gallons: Mixers and loaders who do not use a mechanical system (probe and pump) to transfer the contents of this container must wear coveralls or a chemical-resistant apron in addition to the other required PPE.

Containers of 5 or more gallons: Do not open-pour product from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID

If swallowed:	• Call a poison control center or doctor immediately for treatment advice. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give any liquid to the person. • 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. • Call a poison control center or doctor for treatment advice.
If on skin:	• 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 treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-877-800-5556 for emergency medical treatment information.

NOTE TO PHYSICIAN: Contains petroleum distillates – vomiting may cause aspiration pneumonia.

ENVIRONMENTAL HAZARDS:

Carfentrazone is very toxic to algae and moderately toxic to fish. This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater. When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and MCPP-p have been associated with mixing, loading and disposal sites. Caution should be exercised when handling 2,4-D and MCPP-p pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170.

This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

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, wear:

- coveralls over long-sleeved shirt and long pants.
- chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber or Viton gloves.
- shoes plus socks.

Non-Agricultural Use Requirements

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

Reentry Statement: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried.

PRODUCT DESCRIPTION:

SpeedZone® Broadleaf Herbicide for Turf (SpeedZone) contains four active ingredients including carfentrazone-ethyl that broaden the spectrum of weed control. Carfentrazone-ethyl is in the aryl triazolinone family and inhibits protoporphyrinogen oxidase (Protox), a pivotal enzyme in chlorophyll production.

SpeedZone offers these advantages:

- Excellent postemergent activity with proven performance for broadleaf weed control in turfgrass.
- Superior cool weather performance.
- High selectivity (turfgrass safety) in established cool-season turfgrass and warm-season turfgrass.
- Good toxicological, environmental, and ecological properties compared to the standards.

- Carfentrazone-ethyl combinations provide rapid and effective weed control for common and troublesome weed species in turfgrass, e.g. spurge, pennywort (dollarweed), dandelion, and white clover.
- Fast acting with evidence of injury within hours. The speed of action (rate of phytotoxicity) and the early injury symptoms are unique features of carfentrazone-ethyl combinations. Generally, the injury symptoms can be noticed within hours of the application and plant death can occur within 7-14 days.

SPRAY PREPARATION AND TANK MIXTURES:

SpeedZone is an emulsifiable concentrate intended for dilution with water. In certain applications, liquid fertilizer may replace part of the water as a diluent.

Water as diluent:

Add one-half the required amount of water to the spray tank, then add SpeedZone slowly with agitation, and complete filling the tank with water. To prevent separation of the emulsion, mix thoroughly and continue agitation while spraying.

This product forms an emulsion and can separate upon extended or prolonged standing. Re-agitate to assure uniformity of the spray mixture.

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

Liquid fertilizers as diluents:

Use suitable sources and rates of fertilizer based upon local recommendations. Refer to the mixing directions on the labels of the liquid fertilizers (eg. UAN or urea solutions). Always perform a jar compatibility test before large scale mixing.

GROUND EQUIPMENT:

Power sprayers fitted with a boom or spray wand/gun may be used for broadcast applications and spot treatments. For best spray distribution and coverage, select a spray volume and delivery system that will ensure accurate and uniform coverage. Boom sprayers equipped with appropriate flat fan nozzles, tips, and screens are suitable for broadcast applications. Do not use flood nozzles, Raindrop®, or nozzle tips larger than 8008. Spray droplets larger than 400 microns may reduce coverage and subsequent loss in weed control.

Spray volumes of 3-175 gallons per acre with spray pressures adjusted to 20-40 psi are appropriate. Use higher spray volumes for dense weed populations.

Hand operated sprayers including backpack sprayers, compression sprayers, and knapsack sprayers are appropriate for small turfgrass areas when power equipment is unavailable, uneconomical, or impractical.

This product may cause injury to susceptible/nontarget plants at the use site by contacting the foliage, stems, or roots. To prevent injury to susceptible crops and other desirable broadleaf plants including but not limited to cotton, legumes, tobacco, tomatoes, garden/vegetable crops, and ornamentals (flowers, trees, and shrubs) avoid contact with the spray solution, spray droplets, and spray mist (fine droplets). Applications are recommended only when there is no potential hazard from spray drift during dormant and active growth periods. Do not apply when conditions are conducive to spray drift from the use site to untreated areas.

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

WHERE TO USE:

SpeedZone provides selective broadleaf control in warm-season and cool-season turfgrass in five (5) use sites.

- *Institutional sites* are defined as turf areas around properties or facilities providing a service to public or private organizations including, but not limited to hospitals, nursing homes, schools, museums, libraries, sport facilities, golf courses (fairways, aprons, and roughs), and office buildings.
- *Ornamental sites* include turfgrass established around residences, parks, streets, retail outlets, cemeteries, industrial and institutional buildings, recreation areas, fairgrounds, and areas adjacent to athletic fields.
- *Residential/domestic sites* are defined as areas associated with the household or home life including, but not limited to apartment complexes, condominiums, and patient care areas of nursing homes, mental institutions, hospitals, or convalescent homes.
- *Agricultural site:* Commercial sod production.

- **Noncropland Sites:** Highway rights-of-way (principal, interstate, county, private, and unpaved roads): Roadsides, roadside ditches, road shoulders, road embankments, dividers, and medians. Municipal, state, and federal lands: Airports and military installations.

Prohibitions of Sites:

- Do not apply to any body of water such as lakes, streams, rivers, ponds, reservoirs, or estuaries (salt water bays). Do not apply to any shorelines (noncropland sites adjacent to the edges of a body of water) for lakes, streams, rivers, ponds, reservoirs, or estuaries (salt water bays).
- Do not apply to wetlands (swamps, bogs, potholes, or marshes).
- Do not apply to agricultural irrigation water or on agricultural irrigation ditchbanks and canals.
- Do not apply to agricultural drainage water or on agricultural ditchbanks.

Turfgrass tolerance:

- The turfgrass tolerance to SpeedZone may vary and temporary turfgrass yellowing may occur on certain varieties (F1) hybrids of hybrid bermudagrass. Environmental conditions and certain spray tank additives (e.g. adjuvants, wetting agents, surfactants), liquid fertilizers, and tank mixtures containing other emulsifiable concentrates may reduce the selectivity on the turfgrass.

These cool-season and warm-season turfgrass species may be treated:

Cool-Season Turf

Kentucky bluegrass, Annual bluegrass, Annual ryegrass, Perennial ryegrass, Tall fescue, Red or fine leaf fescues, Creeping and Colonial bentgrass (excluding golf greens) and mixtures of cool-season species in noncropland areas established for roadside vegetation management or for low maintenance. (Kentucky bluegrass, tall fescue, smooth bromeagrass, and orchardgrass).

Warm-Season Turf

Common bermudagrass, Hybrid bermudagrass and Zoysiagrass.

Prohibitions:

- Do not apply this product to bentgrass greens, carpetgrass, dichondra, legumes, and lawns where desirable clovers are present.

APPLICATION SCHEDULES:

Early postemergent applications of SpeedZone are recommended for annual, biennial, and perennial weeds. Apply SpeedZone to broadleaf weeds that are young and actively growing for the best results. SpeedZone combines a contact herbicide with systemic herbicides and provides little or no residual activity at recommended use rates.

SpeedZone may be applied as a single broadcast application or as split/sequential broadcast applications in the spring, summer, or fall. Spring and fall treatments under adequate soil moisture conditions are preferred to the summer treatments. Generally, summer broadcast applications to older, drought stressed weeds are less effective.

Sequential broadcast applications or follow-up applications as spot treatments at a 2-6 week interval are recommended for more mature weeds, for dense infestations, and for adverse environmental conditions.

Spot treatments during the summer may be appropriate for sparse infestations, or as a follow-up treatment anytime broadleaf weeds are susceptible. Apply on a spray-to-wet basis for the best results.

Extremes in environmental conditions e.g. temperature and moisture, soil conditions, and cultural practices may affect the activity of SpeedZone. Under warm moist conditions, herbicide symptoms may be accelerated. While under very dry conditions, the expression of herbicide symptoms is delayed, and weeds hardened off by drought are less susceptible to SpeedZone.

For newly seeded areas:

The application of SpeedZone to grass seedlings is recommended after the second mowing.

For newly sodded, sprigged, or plugged areas:

The application of SpeedZone to newly sodded, sprigged, or plugged grasses should be delayed until 3 to 4 weeks after the sodding, sprigging, or plugging operations.

For dormant turf:

Applications to dormant bermudagrass and dormant zoysiagrass are suggested.

Prohibitions for application schedules:

- Do not broadcast apply when air temperatures exceed 90°F; some injury may be expected with spot treatments when air temperatures exceed 90°F.

HOW MUCH TO USE: USE RATES AND SPRAY VOLUMES FOR TURFGRASS:

Generally, the lower application rates within the specified range will provide satisfactory control of sensitive weed species. The higher application rates within the specified range will be required for dense infestations of perennial weeds, for adverse/extreme environmental conditions, or for weeds beyond the appropriate growth stages.

The maximum application rate to turf is 1.0 pound 2,4-D acid equivalent per acre per application per site. The maximum number of broadcast applications per treatment site is 2 per year.

The maximum seasonal rate of carfentrazone-ethyl contained in this product with two (2) broadcast applications to turfgrass is 0.062 pounds of carfentrazone-ethyl per acre per season. The retreatment interval for sequential broadcast applications of this product on turfgrass is two (2) to six (6) weeks depending upon the growth stages of the target weeds.

Use rates and spray volumes of SpeedZone as a broadcast treatment for use on turfgrass are presented in Table 1.

TABLE 1. RATE RECOMMENDATIONS FOR SOD FARMS, ORNAMENTAL LAWNS AND TURFGRASS.

Species	Amount of Product, Pints/Acre	Spray Volume, Gallons/Acre	Amount of Product, fl. oz./1,000 sq. ft.	Spray Volume, Gallons per 1,000 sq. ft.
COOL-SEASON TURF				
Kentucky bluegrass, Annual bluegrass, Annual ryegrass, Perennial ryegrass, Tall fescue, Red or fine leaf fescues, Creeping and Colonial bentgrass (excluding golf greens).	3.0 - 5.0	3 - 175	1.1 - 1.8	0.1 - 4.0
Mixtures of cool-season species established for aesthetic purposes.	3.0 - 5.0	3 - 175	1.1 - 1.8	0.1 - 4.0
Mixtures of cool-season species in noncropland areas established for roadside vegetation management or for low maintenance. (Kentucky bluegrass, tall fescue, smooth bromeagrass & orchardgrass.)	3.0 - 5.0	3 - 175	1.1 - 1.8	0.1 - 4.0
WARM-SEASON TURF				
Common bermudagrass, Hybrid bermudagrass and Zoysiagrass.	2 - 4	3 - 175	0.75 - 1.5	0.1 - 4.0
NOTE: Maximum control of weeds will be obtained with early to mid-spring or mid to late fall applications. Higher rates, listed above, should be used in warmer temperatures (above 70°F).				

SPOT TREATMENTS WITH HAND OPERATED SPRAYERS (INCLUDING BACKPACK SPRAYERS, COMPRESSION SPRAYERS, AND KNAPSACK SPRAYERS):

- For cool-season turfgrass, mix 1.1-1.8 fl. oz. of SpeedZone per one (1.0) gallon of water for treatment of approximately 1,000 sq. ft of turfgrass. Apply any time the emerged broadleaf weeds are susceptible. Spray the target weeds thoroughly and wet the entire leaf surface of the undesirable plants.
- For warm-season turfgrass, mix 0.75-1.5 fl. oz. of SpeedZone per one (1.0) gallon of water for treatment of approximately 1,000 sq. ft of turfgrass. Apply any time the emerged broadleaf weeds are susceptible. Spray the target weeds thoroughly and wet the entire leaf surface of the undesirable plants.

SpeedZone may be tank mixed with other herbicides EPA-registered for use on turfgrass to broaden the weed control spectrum compared to the products alone. These tank mixtures must be used according to the most restrictive label limitations and precautions. No label dosage rate should be exceeded. Follow the labeling of each companion product for precautionary statements, directions for use, dosage rates, and application schedules. Tank mixture recommendations are for use only in states where the companion products and application site are registered.

CULTURAL TIPS FOR IMPROVED CONTROL:

Irrigation:

- Do not apply this product through any type of irrigation system.
- Do not apply this product immediately before rainfall or irrigation.
- Rainfast period: Rainfall or irrigation occurring within 3-4 hours after application of this product may reduce the effectiveness.

Mowing:

- Delay mowing 1 to 2 days before and after the application of this product.

Reseeding interval:

- Treated areas may be reseeded 2 weeks after application.

BROADLEAF WEEDS CONTROLLED:

SpeedZone will control or suppress the following broadleaf weeds and will control or suppress other broadleaf weeds that are susceptible to 2,4-D.

BROADLEAF WEEDS

Annual fleabane	Field oxeye-daisy	Poison ivy
Aster, white heath & white prairie	(*creeping oxeye)	Poison oak
Bedstraw	Field pennycress	Prostrate knotweed
Beggarticks	Filaree, whitestem & redstem	(*knotweed)
Beggarweed, creeping	Florida pusley	Puncturevine
Bindweed	Ground ivy	Purple cudweed
Birdsfoot trefoil	Groundsel	Purslane
Black medic	Hairy bittercress	Ragweed
Broadleaf plantain	Hawkweed	Redweed
Buckhorn plantain	Healall	Red sorrel
Bull thistle	Henbit	(*sheep sorrel)
Burclover	Horsenettle	Roundleaf greenbriar
Burdock, common	Horseweed	Shepherdspurse
Buttercup, creeping	Innocence	Spotted spurge
Carolina geranium	(Blue-eyed Mary)	Spurge
Carpetweed	Jimsonweed	Star-of-Bethlehem
Chickweed, common	Kochia	Sunflower
Chicory	Lambsquarters	Thisle
Cinquefoil	Lawn burweed	Velvetleaf (*buttonweed)
Clover	Lespedeza, common	Venice mallow
Cocklebur	Mallow, common	Veronica
Common mullein	Matchweed	(*corn speedwell)
Compassplant	Mouseear chickweed	Virginia buttonweed
Curly dock	Mustard	Virginia-creeper
Dandelion	Nettle	Western salsify
Dayflower	Old world diamond flower	White clover (*Dutch clover, honeysuckle clover, white trefoil, & purplewort)
Deadnettle	<i>Oxalis</i>	Wild carrot
Dock	(*yellow woodsorrel & creeping woodsorrel)	Wild garlic
Dogfennel	Parsley-piert	Wild geranium
Dovefoot geranium	Pennsylvania smartweed	Wild lettuce
English daisy	Pennywort (*dollarweed)	Wild mustard
False dandelion	Pepperweed	Wild onion
(*spotted catsear & common catsear)	Pigweed	Wild strawberry
Field bindweed	Pineappleweed	Wild violet
(*morningglory & creeping jenny)	Plantain	Yarrow
Field madder		Yellow rocket

*Synonyms

PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED.

This limited warranty does not extend to the use of the product inconsistent with label instructions, warnings or cautions, or to use of the product under abnormal conditions such as drought, excessive rainfall, tornadoes, hurricanes, etc. These factors are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employee or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.

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654 AP010606
EPA REG. NO. 2217-833

Manufactured By
G pbi/gordon
CORPORATION
An Employee-Owned Company
1217 West 12th Street
Kansas City, Missouri 64101
www.pbigordon.com

STORAGE & DISPOSAL

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

STORAGE: Store in original container in a locked storage area inaccessible to children or pets. Keep from freezing.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your state Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: For Metal Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

For Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities by burning. If burned stay out of smoke.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A

Issue Date 27-May-2020

Revision Date 02-Jun-2020

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier.

Product Name SpeedZone® EW Broadleaf Herbicide for Turf

Other means of identification

Product Code PBI FP 658

EPA Pesticide Registration Number 2217-1053

Recommended use of the chemical and restrictions on use

Recommended Use Herbicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

PBI-Gordon Corporation
P.O. Box 860350
Shawnee, KS 66286

Company Name

PBI-Gordon Corporation
P.O. Box 860350
Shawnee, KS 66286

Manufacturer

PBI-Gordon Corporation
P.O. Box 860350
Shawnee, KS 66286

Emergency telephone number

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Oral Toxicity	Category 4
Serious eye damage/eye irritation	Category 2B
Skin Sensitization	Category 1
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1

Label elements

Emergency Overview

Signal word

Warning

Hazard statements

- Harmful if swallowed
- Causes eye irritation
- May cause an allergic skin reaction
- Very toxic to aquatic life with long lasting effects



Appearance Liquid

Physical state Liquid

Odor Sweet

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace
Wear protective gloves

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Have the product label with you when calling a poison control center or doctor or going in for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.

Other information

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Chemical name	CAS-No	Weight-%
2,4-D, 2-ethylhexyl ester	1928-43-4	25.86
MCPP-p Dimethylamine Salt	66423-09-4	6.84
Dimethylamine dicamba	2300-66-5	1.91
Carfentrazone-ethyl	128639-02-1	0.57
Trade Secret	Trade secret	0 - 10%

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. If symptoms persist, call a physician.
Skin contact	Wash with soap and water. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Remove to fresh air.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Most important symptoms and effects, both acute and delayed

Symptoms	No information available
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Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical Product is or contains a sensitizer. May cause sensitization by skin contact.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment for fire-fighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information Avoid release to the environment Collect spillage Dispose of contents/container to an approved waste disposal plant

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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2,4-D, 2-ethylhexyl ester 1928-43-4	TWA: 10 mg/m ³ inhalable fraction S*	TWA: 10 mg/m ³	IDLH: 100 mg/m ³ , TWA: 10 mg/m ³
Carfentrazone-ethyl 128639-02-1	TWA: 1 mg/m ³ inhalable particulate matter	-	-
Trade Secret	STEL: 15 ppm TWA: 5 ppm	TWA: 10 ppm TWA: 18 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 18 mg/m ³	IDLH: 500 ppm TWA: 10 ppm TWA: 18 mg/m ³

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Chemical resistant gloves.

Skin and body protection Wear long-sleeved shirt, long pants, socks and shoes.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Color White
Odor Sweet
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6-8	
Melting point/freezing point		None known
Boiling point / boiling range		None known
Flash point	No data available	
Evaporation rate	> 96 °C / 205 °F	
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air	No data available	None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	1.051	
Water solubility	Emulsifiable	
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known

Other Information

Liquid Density 8.75 pounds/gallon
Bulk density No information available

10. STABILITY AND REACTIVITY

Reactivity

No information available.

Stability

Stable under recommended storage conditions

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Keep out of reach of children.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Causes eye irritation.
Skin contact	May be harmful in contact with skin.
Ingestion	Harmful if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,4-D, 2-ethylhexyl ester 1928-43-4	= 300 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.4 mg/L (Rat) 4 h
Dimethylamine dicamba 2300-66-5	= 1267 mg/kg (Rat) = 2629 mg/kg (Rat)	> 2 g/kg (Rabbit) > 2000 mg/kg (Rabbit)	-
Carfentrazone-ethyl 128639-02-1	= 5143 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 5.09 mg/L (Rat) 4 h
Trade Secret	= 698 mg/kg (Rat)	= 3900 mg/kg (Rat)	= 4540 ppm (Rat) 6 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
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Acute toxicity

Numerical measures of toxicity - Product Information

Unknown Toxicity

42 % of the mixture consists of ingredient(s) of unknown toxicity

LD50 Oral	= 1750 mg/kg (female rats)
LD50 Dermal	> 5000 mg/kg (rat)
LC50 Inhalation (DUST)	> 2.17 mg/L (rat)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Slightly irritating to the skin.
Serious eye damage/eye irritation	Causes eye irritation.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.

Carcinogenicity The International Agency for Research on Cancer (IARC) lists chlorophenoxy herbicides in its Group 2B (limited evidence for Carcinogenicity in humans.) The US EPA has given the chlorophenoxy Herbicides 2,4-D, 2,4-DP, MCPP, and MCPA a Class D classification (not classifiable as to human carcinogenicity.) More current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic effects and a recent World Health Organization (WHO) review of 2,4-D toxicology has concluded that 2,4-D is not a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
2,4-D, 2-ethylhexyl ester 1928-43-4	-	Group 2B	-	X
MCPP-p Dimethylamine Salt 66423-09-4	-	Group 2B	-	-

Legend**IARC (International Agency for Research on Cancer)***Group 2B - Possibly Carcinogenic to Humans***OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.

12. ECOLOGICAL INFORMATION**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2,4-D, 2-ethylhexyl ester 1928-43-4	30: 120 h Pseudokirchneriella subcapitata mg/L EC50 30: 120 h Pseudokirchneriella subcapitata mg/L EC50 static	7.8: 96 h Oncorhynchus mykiss mg/L LC50 static 11.5: 96 h Lepomis macrochirus mg/L LC50 static 6 - 8.7: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	-	-
Trade Secret	9: 96 h Pseudokirchneriella subcapitata mg/L EC50	210: 96 h Poecilia reticulata mg/L LC50 static 111 - 125: 96 h Oncorhynchus mykiss mg/L LC50 120: 96 h Oncorhynchus mykiss mg/L LC50 static 127 - 349: 96 h Poecilia reticulata mg/L LC50 semi-static 396: 96 h Brachydanio rerio mg/L LC50 static	EC50 = 26.8 mg/L 15 min	88.7: 48 h Daphnia magna Straus mg/L EC50

Persistence and degradability No information available.**Bioaccumulation** No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

Note: Products under 44 gallons not regulated by DOT. Below are designations for products over 44 gallons. See RQ

DOT

UN/ID no.	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class	9
Packing group	III
Reportable Quantity (RQ)	2,4-D, 2-ethylhexyl ester: RQ (lb)= 387.00=44 gallons
Special Provisions	8, 146, 173, 335, IB3, T4, TP1, TP29
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, 2-ethylhexyl ester), 9, III, Marine pollutant

TDG

UN/ID no.	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class	9
Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, 2-ethylhexyl ester), 9, III

MEX

UN/ID no.	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class	9
Special Provisions	274, 331, 335
Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, 2-ethylhexyl ester), 9, III

ICAO (air)

UN/ID no.	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class	9
Packing group	III
Special Provisions	A97, A158, A197
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, 2-ethylhexyl ester), 9, III

IATA

	Limited quantity applies with an inner packaging less than 5 L or gross package weight less than 30 kg.
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III
Special Provisions	A97, A158, A197
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D,

2-ethylhexyl ester), 9, III

IMDG

Limited quantity applies with an inner packaging less than 5 L or gross package weight less than 30 kg.
UN number UN3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es) 9
Packing group III
EmS-No. F-A, S-F
Special Provisions 274, 335, 969
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, 2-ETHYLHEXYL ESTER), 9, III, MARINE POLLUTANT

15. REGULATORY INFORMATION

U.S. EPA Label Information

EPA Pesticide Registration Number 2217-1053

Federal Insecticide, Fungicide, Rodenticide Act Regulations

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

Caution

Keep out of reach of children

Hazards to Humans and Domestic Animals. CAUTION: Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Environmental Hazards: This pesticide is toxic to fish and aquatic invertebrates and may adversely affect non-target plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate. 2,4-D and Mecoprop-p have properties and characteristics associated with chemicals detected in groundwater. The use of these chemicals 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. Fish Advisory Statement: This product may be hazardous to aquatic organisms, particularly in clear, shallow water bodies that are adjacent to treated areas. Transport to water by runoff or spray drift of this product in areas where surface water is present, or intertidal areas below the mean high water mark, should be avoided. Do not contaminate water when disposing of equipment wash water or rinsate. Non-target Organism Advisory Statement: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by minimizing spray drift.

International Inventories

TSCA	Not Listed
DSL/NDSL	Not Listed
EINECS/ELINCS	Not Listed
ENCS	Not Listed
IECSC	Not Listed
KECL	Not Listed
PICCS	Not Listed
AICS	Not Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
2,4-D, 2-ethylhexyl ester 1928-43-4	100 lb	-	-	-
Trade Secret	1000 lb	-	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
2,4-D, 2-ethylhexyl ester 1928-43-4	100 lb	-
Trade Secret	1000 lb	-

US State Regulations

U.S. State Right-to-Know Regulations

US State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2,4-D, 2-ethylhexyl ester 1928-43-4	X	-	-
Trade Secret	X	-	X
Dimethylamine dicamba 2300-66-5	X	-	-
Trade Secret	X	X	X

16. OTHER INFORMATION

NFPA	Health hazards 2	Flammability 1	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 2	Flammability 1	Physical hazards 0	Personal protection X

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of PBI Gordon Corporation's knowledge, information and belief at the date of this publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process, unless specified in the text. PBI GORDON CORPORATION MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, some of which are

uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Each user is also responsible for evaluating the conditions of use and designing the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. PBI Gordon Corporation assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

End of Safety Data Sheet

DIMENSION™ 0.27G Turf and Ornamental Herbicide

When applied as directed under the conditions described on this label, ornamentals listed below have shown tolerance in field trials.

blackeyed Susan (<i>Rudbeckia hirta</i>)	goldstrum		X		X
blanet flower (<i>Gallardia</i> spp.)			X		X
blueberry! (<i>Veccinium</i> spp.)	bluecrop blue jay Jersey north blue northland		X X X X X		X X X X X
bluebrush (<i>Calistemon citrinus</i>)	Little John	X	X	X	X
bougainvillea (<i>Bougainvillea spectabilis</i>)	James Walker Scarlet O' Hara	X	X	X	X
boxwood (<i>Buxusmicrophylla</i>)	japonica		X		X
boxwood, green beauty (<i>Buxus microphylla japonica</i>)	green beauty	X	X	X	X
boxwood, walleri (<i>Buxus sempervirens</i>)	wintergem	X	X	X	X
broom (<i>Cytisus scoparius</i>)	moonlight Vancouver gold		X		X
(<i>Gentlea pilosa</i>)					
camellia (<i>Camellia japonica</i>)	seisukan mathollana- supreme chansonette atsukageka	X	X X X X	X X X X	X X X X
(<i>Camellia sasanqua</i>)		X	X	X	X
canarybird (<i>Iberis sempervirens</i>)	snow white		X		X
carex, variegated (<i>Carex</i> spp.)			X		X
carpet rugie (<i>Ajuga reptans</i>)	bronze bronze beauty		X X		X X
cedar, red (<i>Juniperus virginiana</i>)			X		X
celosia (<i>Celosia</i> spp.)			X		X
centaurea (<i>Centaurea montana</i>)			X		X
cockscorn, plumosa (<i>Celosia cristata</i>)	scarlet plumosa		X		X
coltsfoot (<i>Coleus blumei</i>)	red leopie		X		X
columbine (<i>Aquilegia</i> spp.)			X		X
conflower, purple (<i>Echinacea purpurea</i>)	magnus purple	X	X	X	X
copper leaf (<i>Acalypha wilkesiana</i>)			X		X
coropsis (<i>Coropsis</i> spp.)	moonbeam		X		X
corn flower (<i>Centaurea</i> spp.)			X		X
corn flower (<i>Centaurea</i> spp.)			X		X
corn nastier (<i>Coloneaster spiculatus</i>)			X		X
corydalis (<i>Baccharis pilularis</i>)			X		X
cypress, tall (<i>Taxodium distichum</i>)			X		X

cypress, Florida false (<i>Chamaecyparis obtusa</i>)	gracilis		X		X
cypress, Korean (<i>Cupressus sempervirens</i>)	glauca		X		X
cypress, weeping (<i>Cupressocyp- ripis laeylandii</i>) hybrid			X		X
dianthus (liver- William) (<i>Dianthus</i> spp.)			X		X
delphinium (<i>Delphinium</i> spp.)	magic fountain		X		X
dogwood (<i>Comus florida</i>)			X		X
dogwood, American (<i>Comus sericea</i>)	lateral mea		X		X
Douglas fir (<i>Pseudotsuga menziesii</i>)			X		X
dualy mistle (<i>Nesoc cinerea</i>)		X	X	X	X
elm (<i>Ulmus pennsylv- anica</i>)	grite		X		X
eulalia grass (<i>Miscanthus sinensis</i>)	margen grass	X	X	X	X
eucalyptus (<i>Eucalyptus sp. cinerea</i>) (<i>Eucalyptus for- tunei</i>)	Argentina - Rio- gate Aueronhar- ginalia colorata emerald gaiety emerald n gold gold edge gold prince		X X X X X X		X X X X X X
	Manhattan	X	X	X	X
	silver king trecker vegetus		X X X		X X X
euryops, green leaved (<i>Euryops papi- natus</i>)	viridis	X	X	X	X
fan palm, Euro- pean (<i>Chamaecrops humilis</i>)			X		X
fan palm, Mexi- can (<i>Washingtonia robusta</i>)			X		X
fern (various) (<i>Asperagus spp.</i>)			X		X
ferula (<i>Festuca glauca</i>)			X		X
ferula (various) (<i>Leucocor fontaniana</i>)	rainbow		X		X
figus (<i>Ficus retusa</i>)	rubra		X		X
fir (various) (<i>Abies fraseri</i>)			X		X
forbesia (<i>Forsythia x Arnold Dwarf</i>) (<i>Forsythia viridissima</i>) (<i>Forsythia x intermedia</i>) (<i>Forsythia x Meadowmark</i>)	arnold dwarf bronxensis dwarf lynwood gold meadowmark		X X X X		X X X X
(<i>Forsythia x in- ternedia</i>)	spring glory	X	X	X	X
(<i>Forsythia sus- pensa</i>)	weeping		X		X

kunlun grass, purple (<i>Pennisetum setaceum</i>)	rubrum	X	X	X	X
fuchsia			X		X
(<i>Fuchsia</i> spp.)			X		X
galium			X		X
(<i>Galium odoratum</i>)			X		X
garbanil (<i>Gardenia jasminoides</i>)	myaleir radicans white gem	X	X	X	X
geranium			X		X
(<i>Pelargonium x hortorum</i>)			X		X
gum (<i>Eucalyptus citriodora</i>)			X		X
hemlock (<i>Crategeus</i> spp.)	cocksap white crimson cloud enchantress Jack Evans Washington white		X X X X X		X X X X X
hebeform, indian (<i>Raphiolepis indica</i>)	balanina	X	X	X	X
hebe-er, hawthod (<i>Erica cinerea</i>)	Mediterranean pink		X		X
hemlock Canada (<i>Tsuga canadensis</i>)			X		X
hibiscus (<i>Hibiscus</i> spp.)	blue bird brilliant hula girl		X X X		X X X
holly (<i>Ilex x Nellie R. Stevens</i>) (<i>Ilex x attenuata</i>)	Nellie R. Stevens foxtail Savannah	X	X X X X	X	X X X X
holly, blue (<i>Ilex x meserveae</i>)	Blue lady blue girl China girl		X X X		X X X
holly, cassine (<i>Ilex cassine</i>)		X	X	X	X
holly, Chinese (<i>Ilex cornuta</i>)	coronilla needpoint		X X		X X
holly, Japanese (<i>Ilex crenata</i>)	halleri Japanese - northern beauty steeds	X	X X X	X	X X X
holly, yaupon (<i>Ilex vomitoria</i>)			X		X
honeysuckle (<i>Lonicera xylosteum</i>) (<i>Lonicera japonica</i>)	Clayey dwarf halliana		X X		X X
(<i>Lonicera tatarica</i>)	Canadian white Zabell		X X		X X
ice plant (<i>Carpobrotus edulis</i>)		X	X	X	X

First letter of lot code indicates manufacturing site.

702265-PG2
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LESCO

When applied as directed under the conditions described on this label, ornamentals listed below have shown tolerance in field trials.

maple, Norway (<i>Acer platanoides</i>)			X		X
maple, red (<i>Acer rubrum</i>)	red sunset	X	X	X	X
maple, silver (<i>Acer saccharinum</i>)			X		X
maple sugar (<i>Acer saccharum</i>)			X		X
marigold (<i>Tagetes patula</i>)	honeycomb variegata wheelers dwarf		X X		X X
mock orange (<i>Philadelphus</i> spp.)	golden snowflake double white		X X		X X
monarda grass (<i>Ophopogon japonicus</i>)			X		X
rose rose (<i>Rosa graciosa</i>)	sunny side		X		X
mountain ash (<i>Sorbus aucuparia</i>)			X		X
myrica, grape (<i>Lagerstroemia indica</i>)	lasure langer mustoge standard pink		X X X X		X X X X
myrica, wax (<i>Myrica callorhiza</i>)			X		X
narcissus (<i>Narcissus</i> spp.)			X		X
oak, laurel (<i>Quercus laurifolia</i>)			X		X
oak, pin (<i>Quercus palustris</i>)			X		X
oak, red (<i>Quercus rubra</i>)			X		X
oak, southern (<i>Quercus virginiana</i>)			X		X
oak, willow (<i>Quercus phellos</i>)			X		X
oleander (<i>Nerium oleander</i>)	hardy red petite pink slater's syrnes		X X X		X X X
oleander (<i>Oleander</i>)	whirligig		X		X
pachysandra (<i>Pachysandra terminalis</i>)					X
palmer, king (<i>Archonophoenix cunninghamiana</i>)			X		X
palms, queen (<i>Syngonium</i>)		X	X	X	
pampas grass (<i>Cortaderia selloana</i>)			X		X
patio (<i>Viola x wittrockiana</i>)			X		
paper flower (<i>Bougainvillea glabra</i>)	Barbara Kurl	X		X	X
peach (<i>Prunus persica</i>)			X		X
periwinkle, dwarf (<i>Vincetoxicum</i>)			X		X
petunia (<i>Petunia x hybrida</i>)	jacoti		X		X
phlox, red lip (<i>Phlox x fraseri</i>)			X		X
piris (<i>Pieris laurifolia</i>)			X		X
plum, japonica (<i>Prunus japonica</i>)	mountain fire		X		X

pine, Albanian (<i>Pinus albanica</i>)		X	X	X	X
pine, Austrian black (<i>Pinus nigra</i>)		X	X	X	X
pine, Japanese black (<i>Pinus thunbergiae</i>)			X		X
pine, loblolly (<i>Pinus taeda</i>)			X		X
pine, longleaf (<i>Pinus palustris</i>)			X		X
pine, mugo or Swiss Mt. (<i>Pinus mugo</i>)			X		X
pine, Scotch (<i>Pinus sylvestris</i>)			X		X
pine, slash (<i>Pinus elliotii</i>)			X		X
pine, Virginia (<i>Pinus virginiana</i>)			X		X
pine, white (<i>Pinus strobus</i>)		X	X	X	X
pineapple, guavat (<i>Pejfoe set-cowiana</i>)			X		X
pitheporum, tobira (<i>Pitheporum tobira</i>)	Wholer's dwarf	X	X	X	X
pitheporum, caps (<i>Pitheporum mucronulata</i>)	royal caps	X	X	X	X
potentilla (<i>Potentilla fruticosa</i>)	alibotawood		X		X
potentilla nepalensis			X		X
privet (<i>Ligustrum x vicaryi</i>) (<i>Ligustrum japonicum</i>)	golden vicary regal texanum yellow tipped		X X X X	X	X X X X
privet, glossy (<i>Ligustrum lucidum</i>)			X		X
pyracantha or firethorn (<i>Pyracantha x 'Gnome'</i>) (<i>Pyracantha coccinea</i>) (<i>Pyracantha koidzumii</i>)	gnome islandei victory	X	X X X	X	X X X
queen palm (<i>Arecastrum rommanzschianum</i>)			X		X
quince, Japanese (<i>Chaenomeles japonica</i>)			X		X
rhododendron (<i>Rhododendron</i> spp)	album Cunningham-white PJM purple gem silvery pink		X X X X X		X X X X X
rhododendron, Carolina (<i>Rhododendron carolinianum</i>)			X		X
rhododendron, catawba (<i>Rhododendron catawbiense</i>)			X		X
rhododendron, rhodie max-rosebay (<i>Rhododendron maximum</i>)			X		X
ribwort grass (<i>Phalaris arundinacea</i>)			X		X
rock-rose (<i>Arbutus calceola</i>)	snowcap		X		X

rose1 (<i>Rosa banksiae</i>)	lutea		X		X
rose, knockout shrub (<i>Rosa</i> spp. <i>hybrida</i>)	knockout	X	X	X	X
rosemary1 (<i>Rosmarinus officinalis</i>)			X		X
rosemary, bog (<i>Anchomede polifolia</i>)	nana		X		X
salvia (<i>Salvia farinacea</i>)	blue		X		X
sodium (<i>Sedum apurium</i>)	dragon blood red red carpet yellow		X X X		X X X
smoke tree, royal purple (<i>Cotinus coccinea</i>)	royal purple		X		X
snagdragon (<i>Antirrhinum</i> spp.)			X		X
snowball, common (<i>Viburnum opulifolium</i>)	sterile	X	X	X	X
sourwood (<i>Oxydendrum arboreum</i>)			X		X
spiraea (<i>Spiraea x arendsii</i>)	lanceol		X		X
spiraea (<i>Spiraea</i> spp.)	Anthony Waterer red dodchies froebel pink goldflame red snowmound white Van Houtte white		X X X X X X		X X X X X
spiraea, garden (<i>Spiraea x arguta</i>)			X		X
spruce, black Hills (<i>Picea glehnii</i> <i>var. densata</i>)					X
spruce, Colorado blue (<i>Picea pungens</i>)	glauca	X	X	X	X
spruce, Norway (<i>Picea abies</i>)			X		X
spruce, white (<i>Picea glehnii</i>)	conica		X		X
sweetflag grass (<i>Acrostichum</i>)			X		X
swestglum (<i>Liquidambar styraciflua</i>)			X		X

EPA REG. NO. 62719-429-10404

First letter of lot code indicates manufacturing site.

F1560
Distributed by: **LESCO, Inc.**
1385 East 36th Street
Cleveland, OH 44114-4114

702265-PG3
PP

LESCO[®] DIMENSION[™] 0.27G Turf and Ornamental Herbicide

olerant Ornamentals

When applied as directed under the conditions described on this label, ornamentals listed below have shown tolerance in field trials.

Name	Tolerant Cultivars	Acceptable Application Method Noted by a (X)		Application to Field/Landscape or Container Grown Ornamentals Noted by a (X)	
		Over the Top	Directed	Container Grown	Field/Landscape Grown
ycamore, American (<i>Platanus occidentalis</i>)			X		X
sea tree, New Zealand (<i>Lepidospermum scoparium</i>)	ruliy glow	X	X	X	X
tree fern (bird fern) (<i>Asparagus virgatus</i>)			X		X
Trumpet flower or Carolina Jessamine (<i>Gelsemium sempervirens</i>)			X		X
tufted hairgrass (<i>Deschampsia cespitosa</i>)			X		X
veronica, shrub (<i>Lantana aellowiana</i>)			X		X
Verbena, St. Paul's (<i>Verbene peruviana</i> ,)	St. Paul		X		X
vitiumum (<i>Viburnum</i> spp.)	American cranberry bush arrowwood European cranberry bush linden Mohican wright		X X X X X X		X X X X X X
vinca (periwinkle) (<i>Vinca minor</i>)			X		X
windmill palm (<i>Trachycarpus fortunei</i>)			X		X
xyloasma (<i>Xylosma congestum</i>)			X		X
yarow (<i>Achillea</i> spp.)			X		X
yaupon (<i>Ilex vomitoria</i>)	dwarf		X		X
yew (<i>Taxus cuspidata</i>) (<i>Taxus x media</i>)	capitata densiformis	X X	X X	X X	X X

Ornamental species only. Do not apply this product directly to plants that are grown for food.

Terms and Conditions of Use

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 Limitations of Remedies.

Warranty Disclaimer

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.

Inherent Risks of Use

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 temperature, 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 the Seller. To the extent permitted by law, all such risks shall be assumed by buyer.

Limitation of Remedies

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

To the extent permitted by law, 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 this 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.

LESCO is a registered trademark and the sweeping design is a trademark of LESCO Inc. DIMENSION is a registered trademark of Dow AgroSciences LLC. SCOTTS is a registered trademark of The SCOTT Company. Cycione and Spyker are registered trademarks of Spyker Sprayers, LLC. N:Regulatory\WP\Regul Private\WstLdL_ERIEVIEW ADDRESS\Landscape Style Master Lbts

(080316) Rev. 2/1/19 VT

Net Weight: 50 lb (22.7 kg)

EPA REG. NO. 62719-429-10404

EPA EST. NO. 961-PA-01 (L), 961-IL-01 (D), 8378-IN-1 (K), 9404-FL-1 (C), 59144-GA-1 (A), 32802-MO-1 (B), 37351-CO-1 (E), 82757-OH-001 (M), 82757-FL-001 (S), 82757-MA-002 (H), 89135-AZ-001 (A), 89759-OR-002 (MAS) 89759-OR-004 (BAN).

First letter of lot code indicates manufacturing site.

F1560
Distributed by: LESCO, Inc.
1365 East 36th Street
Cleveland, OH 44114-4114

702265-PG4
PP



LESCO DIMENSION™ 0.27G Turf and Ornamental

Herbicide

Safety Data Sheet

according to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 11/06/2015 Date of issue: 11/25/2013

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: LESCO DIMENSION™ 0.27G Turf and Ornamental Herbicide

Product Code: EPA Registration No.: 62719-429-10404

Synonyms: Dimension; Granular Herbicide

1.2. Intended Use of the Product

Use of the substance/mixture: Weed killer for lawns

1.3. Name, Address, and Telephone of the Responsible Party

Company

LESCO, Inc.

1385 East 36th St

Cleveland, OH 44114

T 800-347-4272

1.4. Emergency Telephone Number

Emergency Number : 1-800-424-9300

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Acute Tox. 4 (Oral) H302

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Skin Sens. 1 H317

STOT SE 3 H335

Aquatic Acute 2 H401

Aquatic Chronic 3 H412

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GH507

Signal Word (GHS-US)

: Warning

Hazard Statements (GHS-US)

: H302 - Harmful if swallowed
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H335 - May cause respiratory irritation
 H401 - Toxic to aquatic life
 H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements (GHS-US)

: P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 - Wash exposed areas thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P271 - Use only outdoors or in a well-ventilated area

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P272 - Contaminated work clothing should not be allowed out of the workplace
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER/doctor/physician if you feel unwell
P321 - Specific treatment (see...)
P330 - If swallowed, rinse mouth
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P362+P364 - Take off contaminated clothing and wash it before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container according to local, state, national and international regulations.

2.3. Other Hazards

Other Hazards Not Contributing to the Classification: No additional information available.

2.4 Unknown Acute Toxicity (GHS-US)

No data available.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

Name	Product Identifier	%	Classification (GHS-US)
(S,S)-Dimethyl 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-3,5-pyridinedicarbothioate	(CAS No) 97886-45-8	<0.3%	Not classified
Synthetic Gypsum (calcium sulfate dihydrate)	(CAS No) 10101-41-4	90-95%	
Limestone (calcium carbonate)	(CAS No) 1317-65-3	<10%	
Calcium Lignosulfonate (stabilizer)	(CAS No) 8061-52-7	1.5%	
Trace metals	--	<1%	
Crystalline Silica (quartz)	(CAS No) 14808-60-7	<0.1%	

Full text of H-phrases: see section 16

3.2. Mixture

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash skin thoroughly with mild soap and water. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

First-aid Measures After Ingestion: Rinse mouth. If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. Call a POISON CENTER/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Harmful if swallowed. Eye irritation. Causes skin irritation. May cause an allergic reaction in sensitive individuals. May cause respiratory irritation.

Symptoms/Injuries After Inhalation: Irritating to the respiratory system and mucous membranes. May cause cancer by inhalation. May cause drowsiness or dizziness.

Symptoms/Injuries After Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

Chronic Symptoms: May cause cancer.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing

Media

Suitable Extinguishing Media: Alcohol foam, dry chemical, carbon dioxide, water spray, fog. Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use water jet. Use of heavy stream of water may spread fire.

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5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but will burn at high temperatures. . Decomposes above 132 °C (270 °F). Under conditions of fire this material may produce: Ammonia. Nitrogen oxides.

Explosion Hazard: May form explosive compounds if mixed with: Calcium hypochlorite. Sodium hypochlorite. Nitrates. Nitric acid. Perchloric acid. Product itself is not explosive but if dust is generated, dust clouds suspended in air can be explosive.

Reactivity: This product as shipped in the form of coarse granules should not contain sufficient dust to present an explosion hazard. Prevent dust accumulation (to minimize explosion hazard).

5.3. Advice for Firefighters

Firefighting Instructions: Not flammable. Exercise caution when fighting any chemical fire.

Protection During Firefighting: Firefighters must use full bunker gear including NIOSH-approved positive-pressure self-contained breathing apparatus to protect against potential hazardous combustion and decomposition products.

Other information: Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice. This material becomes slippery when wet. Avoid all eyes and skin contact and do not breathe vapor and mist. Do not allow product to spread into the environment.

6.1.1. For Non-emergency Personnel

Protective Equipment: Wear suitable protective clothing, gloves and eye/face protection. Use appropriate personal protection equipment (PPE).

Emergency Procedures: Collect as any solid. Ventilate area. Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Wear suitable protective clothing, gloves and eye/face protection. Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

Emergency Procedures: If possible, stop flow of product. Contain and collect as any solid. Evacuate unnecessary personnel. Ventilate area.

6.2. Environmental Precautions

Avoid release to the environment. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain and collect as any solid. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

Methods for Cleaning Up: Recover the product by vacuuming, shoveling or sweeping. Avoid generation of dust during clean-up of spills. If spilled directly onto the ground, remove sufficient soil to ensure material is fully recovered. Material may be used if uncontaminated. Clear up spills immediately and dispose of waste safely.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: This material becomes slippery when wet.

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety procedures. Wear recommended personal protective equipment. Avoid creating or spreading dust. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Hygiene Measures: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Wash hands and forearms thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Keep container closed when not in use.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

Prohibitions on mixed storage: Store away from: Ammonium nitrate. Refer to Section 10 on Incompatible Materials.

Special Rules on Packaging: Corrosive to copper and its alloys.

7.3. Specific End Use(s)

Herbicide.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Chemical Name/Component	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)	Dow IHG
Dithiopyr		(TWA) 20 ppm	(TWA) 0.25 mg/m ³
Toluene	(Z-1)	(TWA) BEI	
	(Z-2) (TWA) 200 ppm		
	(Z-2) (CEIL) 300 ppm		
	(Z-2) (Peak) 500 ppm		
Gypsum (calcium sulfate), total particulate	15	10	
Particles not otherwise specified (PNOS)			
Gypsum (calcium sulfate), PNOS respirable fraction	5	3	

Notes:

1. "OSHA" means Occupational Safety and Health Administration.
2. "PEL" means (OSHA) permissible exposure limit.
3. "ACGIH" means American Conference of Governmental Industrial Hygienists.
4. "TLV" means Threshold Limit Value.
5. "TWA" means time-weighted average.

8.2. Exposure Controls

Appropriate Engineering Controls

: Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Safety glasses. Protective clothing. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: protective gloves.

Eye Protection

: Chemical goggles or safety glasses.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Appearance

Physical State

Solid

Color

Tan

Odor

Sulfur-like

Odor Threshold

no data available

pH

4.2

Melting point/range

65 °C (149 °F)

Freezing point

Not applicable to solids

Boiling point (760 mmHg)

Not applicable to solids

Flash point

closed cup 184 °C (363 °F)

Evaporation Rate (Butyl Acetate = 1)

no data available

Flammability (solid, gas)

no data available

Lower explosion limit

Not applicable

Upper explosion limit

Not applicable

Vapor Pressure

Negligible

Relative Vapor Density (air = 1)

No test data available

Relative Vapor Density (water = 1)

No test data available

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Water Solubility	0.00014 % at 20 °C (68 °F)
Partition coefficient: n-Octanol/water	No data available
Auto-ignition temperature	Not applicable
Decomposition temperature	No test data available
Kinematic Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available
Liquid Density	Not applicable
Solid Density	1.41 g/cm ³
Molecular weight	no data available

Note: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:** This product as shipped in the form of coarse granules should not contain sufficient dust to present an explosion hazard. Prevent dust accumulation (to minimize explosion hazard). Avoid contact with strong acids and strong oxidizers.
- 10.2 Chemical Stability:** Stable at standard temperature and pressure and in dry environments.
- 10.3 Possibility of Hazardous Reactions:** Contact with strong acids could result in release of carbon dioxide.
- 10.4 Conditions to Avoid:** Protect from moisture. Keep away from heat. Direct sunlight. Extremely high or low temperatures. Sparks, heat, open flame and other sources of ignition.
- 10.5 Incompatible Materials:** Strong acids, aluminum (at high temperatures), diazomethane, oxidizers.
- 10.6 Hazardous Decomposition Products:** No hazardous decomposition up to 1450 °C. Above 1450 °C it could decompose to calcium oxide (CaO) and release sulfur dioxide (SO₂) and various carbon dioxides and trace amounts of hydrogen cyanide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information On Toxicological Effects

Acute Toxicity: Harmful if swallowed.

LESCO DIMENSION™ 0.27%

LD50 Dermal Rat mg/kg

(S,S)-Dimethyl 2-(difluoromethyl)-4-(2-methyl propyl)-6-(trifluoromethyl)-3,5-pyridinedicarbothioate (97886-45-8)

LC50 Inhalation Rat (mg/l) >6 g/m³ (Exposure time: 4h)

Note: No specific data are available for the product as a whole, so this information pertains to calcium sulfate dehydrate.

Human Data (Calcium Sulfate Dihydrate)

Likely routes of exposure: inhalation, ingestion, skin and eye contact.

Symptoms: Irritation of the eyes, skin, mucous membrane, upper respiratory system; cough, sneezing, rhinorrhea (discharge of nasal mucous), nosebleed.

Acute Ingestion: Irritation to the esophagus and stomach, abdominal spasms and pain. GI blockage if material hardens.

Health Effects: Nuisance particulate (accumulation in lungs).

Delayed and Immediate Effects: None known.

Chronic effects from short and long term exposure: None known.

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Animal Data (Calcium Sulfate Dihydrate)

Acute Oral Toxicity

Species: Rat (Sprague-Dawley)

Route of Administration: Oral (gavage)

Method: OECD Test Guideline 420 (Acute Oral Toxicity-Fixed dose procedure)

2,000 mg/kg body weight of test substance was administered to 4 female rats during main study (50, 300 and 2,000 mg/kg body weight administered during sighting study).

No mortality, no specific clinical signs observed during test period.

LD50 (Lethal Dose): >2,000 mg/kg body weight (category 5 under Harmonized Integrated Classification System for Human Health and Environmental Hazards of Chemical Substances and Mixtures).

Skin Irritation

Species: Rabbit (New Zealand White)

Test Type: In vivo

Method: OECD TG 404 (1991) "Acute Dermal Irritation/Corrosion"

Exposure Period: 4 hours

500 mg/site/rabbit

No erythema, no eschar, and no oedema (score of zero under OECD method: grading of skin reaction) was observed at the skin on the backs of three rabbits during test period.

Result: Not irritating

Skin Sensitization

Species: Guinea Pig (Hartley)

Test Type: Buehler test

Method: OECD TG 406 (1991) "Skin Sensitization"

Exposure Period: hours/weeks for 3 consecutive weeks

0.4 grams/site/guinea pig was applied topically with an occluded patch to the backs of 40 male guinea pigs. After 6 hours, the material was removed and the skin was examined using the sensitization grading system.

Result: Not sensitizing

No acute inhalation toxicity, acute dermal toxicity, acute toxicity (other routes of administration), corrosiveness/irritation, or eye irritation corrosion studies are available.

Studies of Mutagenicity and Reproduction/Developmental Toxicity Screening Tests were negative.

Carcinogenicity

None of the components are listed as a carcinogen or suspected carcinogen in the U.S. National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions), or by OSHA. Note: This product may contain small quantities of crystalline silica (<0.1%), which has been identified as a carcinogen by the IARC and U.S. NTP.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute Toxicity to Fish:

Dithiopyr:

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, *Oncorhynchus mykiss* (rainbow trout), 96 hour, 0.48 mg/L

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Calcium Sulfate, Dihydrate:

Method: OECD TG 203 "Fish, Acute Toxicity Test"

Test Species: *Oryzias latipes*

Type: Static

Exposure Period: 96 hours

LC₅₀(Lethal Concentration): >100 mg/L

No mortality or visible abnormality occurred at the test limit of 100 mg/L.

Acute Toxicity to Aquatic Invertebrates:

Dithiopyr:

LC₅₀, saltwater mysid *Mysidopsis bahia*, 0.586 mg/L

EC₅₀, eastern oyster (*Crassostrea virginica*), 0.168 mg/L

Calcium Sulfate, Dihydrate:

Method: OECD TG 202, "*Daphnia* sp., Acute Immobilization Test and Reproduction Test"

Test Species: *Daphnia magna*

Type: Static

Exposure Period: 48 hours

EC₅₀(Effective Concentration): >100 mg/L

No immobilization or mortality occurred at the test limit of 100 mg/L.

Toxicity to Above Ground Organisms (Dithiopyr):

Material is practically non-toxic to birds on a dietary basis (LC₅₀ > 5000 ppm).

Material is practically non-toxic to birds on an acute basis (LD₅₀ > 2000 mg/kg).

dietary LC₅₀, *Colinus virginianus* (Bobwhite quail), >5,620 ppm

oral LD₅₀, *Colinus virginianus* (Bobwhite quail), >2,250 mg/kg

contact LD₅₀, *Apis mellifera* (bees), 48 hour, 81 µg/bee

Toxicity to soil-dwelling organisms (Dithiopyr):

LC₅₀, *Eisenia fetida* (earthworms), mortality, > 1,000 mg/kg

Exotoxicity (Calcium Sulfate, Dihydrate):

Algae

Method: OECD TG 201, "Alga, Growth Inhibition Test"

Test Species: *Selenastrum capricornutum*

Exposure Period: 72 hours

Endpoint: Growth Rate

E_GC₅₀(Effective growth concentration): >100 mg/L

E_bC₅₀(Effective Biomass concentration): >100 mg/L

NOEC_r(No Observed Effect Concentration – Reproduction): <100 mg/L

NOEC_b(No Observed Effect Concentration – Biomass): <100 mg/L

No significant difference in growth curve between test and control group.

12.2 Persistence and degradability

Dithiopyr

Biodegradability: Biodegradation may occur under aerobic conditions (in the presence of oxygen).

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Toluene

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

10-day Window: Not applicable

Biodegradation: 100%

Exposure time: 14 d

Method: OECD Test Guideline 301C or Equivalent

Theoretical Oxygen Demand: 3.13 mg/mg Calculated.

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life: 2 d

Method: Estimated.

Balance

Biodegradability: No relevant data found.

Calcium Sulfate, Dihydrate

Not relevant for an inorganic compound.

12.3 Bioaccumulative potential

Dithiopyr, Toluene, Balance: No data available.

Calcium Sulfate, Dihydrate: Bioaccumulation is not expected.

12.4 Mobility in Soil

Dithiopyr

Expected to be relatively immobile in soil ($K_{oc} > 5000$).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition Coefficient(K_{oc}): 20500

Toluene

Potential for mobility in soil is very high (K_{oc} between 0 and 50)

Partition Coefficient(K_{oc}): 37 – 178 Estimated.

Balance

No relevant data found.

Calcium Sulfate, Dihydrate

Soluble in water and mobile in soil.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Disposal Methods: Pesticide: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures. Or call (1-800-CLEANUP) for disposal instructions. Never place unused product down any indoor or outdoor drain. Container: Do not reuse bag. Dispose of emptied bag(s) in a sanitary landfill approved for pesticide disposal, or by incineration.

Additional Information: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT	Not regulated for transport
14.2 In Accordance with IMDG	Not regulated for transport
14.3 In Accordance with IATA	Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 Dithiopyr

OSHA Hazard Communication Standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Chronic Health Hazard

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

Pennsylvania (Worker and Community Right-to-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania (Worker and Community Right-to-Know Act): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

United States TSCA Inventory (TSCA)

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number: 62719-429-10404

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the product label:

CAUTION

Calcium Sulfate, Dihydrate

This product is not labeled for sale or use in the State of California, thus no Proposition 65 declarations are required.

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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 11/06/2015
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Acute Tox. Not classified (oral)	Acute toxicity (oral) Not classified
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment – Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment – Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard Category 3
Comb. Dust	Combustible Dust
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Ox. Sol. 2	Oxidizing solids Category 2
Ox. Sol. Not Classified	Oxidizing solids Not classified
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	May form combustible dust concentrations in air
H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects
ACGIH	USA. ACGIH Threshold Limit Values (TLV)
BEI	Biological Exposure Indices
CEIL	Acceptable ceiling concentration
Dow IHG	Dow Industrial Hygiene Guideline
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
OSHA Z-2	USA. Occupational Exposure Limits (OSHA) – Table Z-2
Peak	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift
TWA	8-hour, time-weighted average

LESCO DIMENSION™ 0.27G Turf and Ornamental Herbicide

Safety Data Sheet

according to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

NFPA Health Hazard

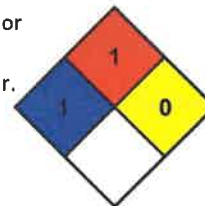
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA Fire Hazard

: 1 - Must be preheated before ignition can occur.

NFPA Reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 1 Slight Hazard

Physical

: 0 Minimal Hazard

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

IMPORTANT: The information contained herein is based on available data. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof; and you should make your investigation to determine safety for the use you contemplate. LESCO makes no warranty of merchantability of fitness for a particular use, nor is there any other express or implied warranty except as may be specifically provided otherwise on product. LESCO, Inc. assumes no responsibility or liability for any incidental or consequential damages whether related to personal injury or property damage, to vendees, users or third parties, caused by the material and LESCO's responsibility is limited to replacement of, or repayment of, the purchase price for the material(s) with respect to which any damages are claimed. All vendees or users assume all risk associated with the use of the material(s).

SDS US (GHS HazCom) - US Only 10 pt 2

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FIRST AID	
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.
If swallowed:	• Immediately call a poison control center or doctor for treatment advice. • DO NOT induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow. • DO NOT give anything by mouth to an unconscious person.
For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577. Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
PRECAUTIONARY STATEMENTS	
HAZARD TO HUMANS AND DOMESTIC ANIMALS	
CAUTION	
Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed.	
PERSONAL PROTECTIVE EQUIPMENT (PPE)	
All mixers, loaders, applicators and other handlers must wear:	
• Long-sleeved shirt and long pants • Shoes plus socks • Chemical-resistant gloves (except for applicators using ground boom equipment) made of any waterproof material such as polyethylene or polyvinyl chloride. See Engineering Control Statement for additional requirements and exceptions.	
User Safety Requirements:	
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 control statement:	
When handlers use closed systems, 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 with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet. • Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. • Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.	
ENVIRONMENTAL HAZARDS	
This product is toxic to non-target plants. Non-target plants may be adversely affected if the product is allowed to drift from the areas of application. Avoid spray drift from treated area. DO NOT apply when conditions favor drift from treated areas. DO NOT apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. DO NOT contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. DO NOT drain or rinse equipment near desirable vegetation. Refer to the Spray Drift Management section of this label for additional information.	
GROUNDWATER ADVISORY	
This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.	
SURFACE WATER ADVISORY	
This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for weeks after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface	
water features such as ponds, streams, and springs will reduce the potential loading of Iodosulfuron-methyl-sodium from runoff water and sediment. Runoff of this product will be greatly reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.	
NON-TARGET ORGANISM ADVISORY	
This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.	
PHYSICAL OR CHEMICAL HAZARDS	
DO NOT use or store near extreme heat or open flame.	
DIRECTIONS FOR USE	
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.	
Read entire label before using this product.	
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 same area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.	
AGRICULTURAL USE REQUIREMENTS	
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry intervals. 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 24 hours (sod farm use only).	
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 over long-sleeved shirt and long pants, chemical-resistant footwear plus socks, chemical-resistant gloves made of any waterproof material, chemical-resistant headgear for overhead exposure, and protective eyewear.	
NON-AGRICULTURAL USE REQUIREMENTS	
The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. DO NOT enter or allow others to enter treated areas until sprays have dried.	
PRODUCT INFORMATION	
PRODUCT USES	
CELSIUS WG HERBICIDE is a selective herbicide with multiple modes of action that provide a broad spectrum of weed control. CELSIUS WG HERBICIDE controls weeds after they have germinated (postemergence) and also has some residual activity that prevents new weed germination, depending on the specific weed.	
CELSIUS WG HERBICIDE is intended for foliar application by licensed commercial applicators to established turf including residential lawns, commercial lawns, golf courses, sports fields, parks, campsites, recreational areas, roadsides, school grounds, cemeteries, sod farms to control annual and perennial broadleaf weeds and grasses in certain warm-season turf types.	
SYMPTOMS	
Weed growth ceases within hours after application of CELSIUS WG HERBICIDE. Symptoms progress from yellowing or reddening/purpling to necrosis, resulting in control of weeds within 1-4 weeks after application, depending on the sensitivity of the weed and environmental conditions. Weed control is more rapid when soil temperatures are above 65 degrees, when soil moisture is adequate for weed growth, and when weeds are not under environmental stress (e.g. drought). This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent	

to the treated area. Protect the forage and habitat of non-target organisms by minimizing spray drift. For further guidance and instructions on how to minimize spray drift, refer to the Spray Drift Management section of this label.

MODE OF ACTION

Two of the three active ingredients in CELSIUS WG HERBICIDE (thiencarbazone-methyl and iodosulfuron-methyl-sodium) inhibit acetylcoenzyme A synthase (ALS). ALS is responsible for the synthesis of amino acids that are essential for plant growth. Inhibition of these amino acids stops weed growth. Some weed species, however, have naturally occurring biotypes that are resistant to ALS-inhibiting herbicides. Resistant weed populations may occur when ALS herbicides are used year after year. To add to the weeds controlled and provide resistance management, CELSIUS WG HERBICIDE also contains dicamba, a benzoic acid herbicide that acts on the same biochemical site as the natural plant auxin, indole acetic acid (IAA). Having herbicides with different modes of action (MOA) reduces the probability that resistant biotypes to CELSIUS WG HERBICIDE will develop.

WEED RESISTANCE MANAGEMENT

For resistance management, CELSIUS WG HERBICIDE contains Group 2 and Group 4 herbicides. Any weed population may contain or develop plants naturally resistant to this product. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance management strategies should be followed.

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

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

TURF TOLERANCE

This product has been tested and can be used on the following types of turfgrass and their cultivars:

St. Augustinegrass (Floristam, Palmetto, Bitter Blue, Common, Amerishade, Raleigh, Sapphire, Delmar, Captiva)
Bermudagrass (Tifway 419, Common, TifSport, Discovery, Celebration, Sahara)
Centipede (Tifblair)
Zoysiagrass (Meyer, Empire, Crown, Palisades, Cavalier, Zorro, DeAnza, Zenith)
Buffalograss (Legacy, Cody)

Other turfgrasses and their cultivars may be tolerant to this product. However, tolerance testing must be done prior to use. Some temporary discoloration of certain warm-season grasses may occur to turf under stress from drought, disease, extreme cold or hot weather.

DO NOT use this product on bahiagrass, seashore paspalum or cool-season turf types, including tall fescue, fine fescue, Kentucky bluegrass, perennial ryegrass, or creeping bentgrass.

USE OF CELSIUS WG HERBICIDE NEAR SENSITIVE GRASSES

CELSIUS WG HERBICIDE can damage or control cool season grasses. Some use sites, including many golf courses, grow warm and cool season grasses in the same vicinity. To reduce the probability of CELSIUS WG HERBICIDE being moved from its site of application to adjacent areas containing sensitive grasses, practice the following:

- Allow the leaf surface of treated turf to dry several hours prior to allowing foot traffic or equipment in the treated area adjacent to sensitive grasses.
- When there may be a risk to adjacent sensitive grasses, apply CELSIUS WG HERBICIDE when the soil is less than field capacity. Avoid applications to saturated soil.
- Allow CELSIUS WG HERBICIDE to be absorbed several hours prior to an irrigation cycle. If dew is present on the day following application, irrigate lightly (0.1-0.2 inches) prior to allowing foot traffic or equipment on the treated area.

MOWING INSTRUCTIONS

DO NOT mow immediately after treating with this product or before spray has dried. After treatment, DO NOT transfer clippings to non-target areas.

IRRIGATION

Weed control and turf tolerance is best if turf is growing well and not under stress at the time of treatment. For best results, irrigate prior to treatment if grass is under stress. After application, DO NOT irrigate until spray has dried.

PRECAUTIONS

1. Rainfall before spray has dried may necessitate retreatment with this product or reduced weed control may result.
2. Make applications to actively growing weeds. Mature, hardened-off weeds may not be controlled. Weed control may be reduced if application is made in the presence of heavy dew, fog, and mist/rain or when weeds are under stress due to drought.
3. Apply spray mixtures of this product within 5 days of mixing to avoid product degradation.
4. Spot treatments to St. Augustinegrass turf at temperatures above 90 degrees may cause temporary growth regulation. Turf will assume normal growth rate after mowing.

RESTRICTIONS

1. The maximum single application rate is 4.9 oz product/A. DO NOT apply more than a total of 7.4 oz (210 g) of product per acre (0.17 oz or 4.8 g of product per 1,000 sq ft) per year (365 days).
2. The reentry interval (REI) for sod farms is 24 hours.
3. DO NOT apply this product by air or through any type of irrigation system.
4. DO NOT apply this product to turf if a frost or freeze is expected within 48 hours of application.
5. DO NOT use this product on golf course greens and collars.
6. DO NOT apply this product on turf exhibiting injury from previous applications of other products.
7. Apply this product only to established turf unless otherwise noted on the label.
8. Some ornamentals may be sensitive to this product. DO NOT plant ornamentals or bedding plants in treated bare areas for at least 30 days after the last application of this product.
9. Avoid application of this product near the roots of newly planted ornamentals.
10. In order to minimize risk to sensitive areas (water bodies or non-target plants), apply by broadcast application (boom-type sprayers) only when the potential for drift to adjacent sensitive areas is minimal (e.g., when the wind is 10 mph or less and is blowing away from the sensitive area).
11. Keep people and pets out of the area during application.
12. DO NOT allow people or pets to enter the treated areas until sprays have dried.
13. DO NOT use this product on bahiagrass, seashore paspalum or cool-season turf types, including tall fescue, fine fescue, Kentucky Bluegrass, perennial ryegrass, or creeping bentgrass.

APPLICATION

This product may be applied at three different rates depending on the weeds to be controlled. For the appropriate rate and species consult USE RATES FOR WEED CONTROL section. CELSIUS WG HERBICIDE may be applied by broadcast, zone, or spot applications.

For broadcast applications, use a minimum of 10 gallons of water per acre. For weed control in dense weed populations, control of weeds under adverse growing conditions, or control of mature weeds, the optimum spray volume is 60 gallons per acre.

ZONE

A zone application is defined as a broadcast application made to a defined area (less than 10,000 sq ft per acre). Add the specified product rate of 0.057-0.113 oz (1.6-3.2g) to 1-gallon water. One gallon of spray solution will treat up to 1,000 sq ft.

SPOT

Spot applications are defined as directed applications made to control one or several weeds in a turfgrass situation with a backpack or hand-held sprayer. Add the specified product rate of 0.057-0.113 oz (1.6-3.2g) to 1-gallon water.

For spot applications, spray to wet. Avoid over application.

TANK MIXING CELSIUS WG HERBICIDE WITH ADJUVANTS AND FERTILIZERS

- In areas where weed pressure is high and adequate coverage is critical, add a non-ionic surfactant (NIS) at 0.25% v/v to the spray solution.
- For difficult-to-control weeds, the addition of methylated seed oil (MSO) at a rate of 0.25-0.5% v/v may improve weed control.
- DO NOT use a spray adjuvant at temperatures above 90 degrees.
- Application of CELSIUS WG HERBICIDE with a spray adjuvant or nitrogen-containing fertilizers may damage turf that is under stress.

APPLICATION METHODS, MIXING AND COMPATIBILITY

Uniform, thorough spray coverage with properly calibrated spray equipment is important to achieve consistent weed control. Select spray nozzles and pressure that deliver at least MEDIUM spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASABE S572.1. Nozzles that deliver COARSE spray droplets may be used to reduce spray drift provided spray volume per acre (GPA) is increased to maintain coverage of weeds.

Spray Solution pH

The efficacy of this product may be affected by the pH of the spray solution. A pH near 7.0 is ideal. If the pH is <6 and if product spray solution is not to be used within 24 hours, add a suitable buffer.

Mixing Instructions

This product must be applied with clean and properly calibrated equipment. Prior to adding this product, ensure that the spray tank, filters, and nozzles have been thoroughly cleaned. Prepare only as much spray mixture as needed for application on the same day.

1. Fill spray tank with 25% to 50% of the required volume of water, and begin agitation prior to the addition of this product.
2. Before filling or adding any additional products, ensure full dispersion of this product.
3. If this product is applied in a tank mixture with other products, add this product to the spray tank first and ensure it is thoroughly dispersed before adding other products.
4. Continue to fill the spray tank with water to the desired volume and agitate while adding spray adjuvants or nitrogen fertilizers.
5. Continue agitation during application to ensure a uniform spray mixture.

Compatibility

If this product is to be tank-mixed with other products, compatibility must be tested prior to mixing. To test for compatibility, use a small container and mix a small amount (0.5 to 1 qt) of spray, combining all ingredients in the same ratio as the anticipated use. If any indications of physical incompatibility develop (precipitation, settling, changes in color), DO NOT use this mixture for spraying. Indications of incompatibility may occur within 5-15 minutes after mixing. Read and follow the label of each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

TANK CLEANUP PROCEDURE

1. Drain the tank completely, then wash out tank, boom, and hoses with clean water. Drain again.
2. Fill the tank half full with clean water and add ammonia (i.e. 3% domestic ammonia solution) at a dilution rate of 1% (i.e. 1 gallon of domestic ammonia for every 100 gallons of rinsate). Completely fill the tank with water. Agitate/re-circulate and flush through boom and hoses. Leave agitation on for 10 minutes. Drain tank completely.
3. Repeat Step 2.
4. Remove nozzles and screens and soak them in a 1% ammonia solution. Inspect nozzles and screens and remove visible residues.
5. Flush tank, boom, and hoses with clean water.
6. Inspect tank for visible residues. If present, repeat Step 2.

WEED CONTROL INFORMATION

This product may be used to control a variety of broadleaf weeds and grasses in tolerant turf. Apply this product to susceptible weeds as listed in the Use Rates for Weed Control section. For certain weeds, a follow-up application made 4-6 weeks later may be needed if regrowth is observed. Total amount of product applied in a calendar year (365 days) must not exceed 7.4 oz (210 g) of product per acre.

BERMUDAGRASS OVERSEEDED WITH RYEGRASS

Bermudagrass may be treated with broadcast applications of CELSIUS WG HERBICIDE prior to overseeding. Allow a minimum of 14 days between broadcast application of CELSIUS WG HERBICIDE to established turf and overseeding with ryegrass. Allow a

minimum of 60 days between broadcast application of CELSIUS WG HERBICIDE to bareground or to thin turf with significant areas of bareground. Intervals less than these may cause undesirable reductions in the stand of ryegrass. When making spot applications, allow 28 days before overseeding ryegrass. When other products are mixed with this product, follow the most restrictive application interval prior to ryegrass overseeding on each label.

SEEDING AND SPRIGGING INTERVALS

Seeded Bermudagrass, Zoysiagrass, and Centipedegrass: This product may be applied to Bermudagrass up to 60 days prior to seeding without a significant reduction in stand where the soil is disturbed at planting. For newly established stands, DO NOT apply this product for at least 4 weeks after emergence as injury may result.

Sprigged Bermudagrass: This product may be applied to sprigged Bermudagrass no sooner than 2 weeks after sprigging.

DALLISGRASS CONTROL

This product in combination with REVOLVER® Herbicide (2 fl oz per gallon) and MSO at 1% v/v applied as a spot or zone treatment in late summer or early fall will suppress and/or control dallisgrass. Applications made sooner in the growing season may not be effective. Add the specified product rate of 0.085 - 0.113 oz (2.4 - 3.2 g) to enough water to create approximately one gallon of spray solution. One gallon of spray solution will treat up to 1,000 sq ft. Make a second application if regrowth is observed 30-60 days later, but DO NOT exceed 0.17 oz (4.8 g) of product per 1,000 sq ft in a calendar year.

TANK MIX PARTNERS

CELSIUS WG HERBICIDE may be used in combination with Revolver® Herbicide (432-1266, foramsulfuron), Sencor® 75% Turf Herbicide (432-1469, metribuzin), Prograss® SC Herbicide (432-1462, ethofumesate), Ronstar® FLO Herbicide (432-1465, oxadiazon), Aclclaim® Extra Herbicide (432-950, fenoxaprop-p-ethyl), and Spectide® FLO (432-1608, indaziflam), for control of many grasses and broad leaf weeds. Symptom development may be slow in weeds treated under cool conditions (soil temperatures 65 degrees or less). For increased speed of control during cool temperatures, add carfentrazone, or pyraflufen-ethyl.

When using CELSIUS WG HERBICIDE in combination with other herbicides, follow the precautions and directions of both labels. When using new tank mixtures with CELSIUS WG HERBICIDE, test physical and biological compatibility prior to use. St. Augustinegrass may show increased sensitivity to tank mixtures of CELSIUS WG HERBICIDE and other products. Evaluate these tank mixtures in a limited area before widespread applications.

APPLICATIONS MAY BE MADE ONLY FOR USES FOR WHICH BOTH CELSIUS WG HERBICIDE AND THE TANK MIX PRODUCT ARE REGISTERED. WHEN APPLYING A TANK MIX WITH THIS PRODUCT, THE MOST HIGHLY RESTRICTIVE LABELING APPLIES.

Not all products are registered in all states; please verify state registration of these products in your state before selling, distributing, or using.

USE RATES FOR WEED CONTROL

Broadcast Application

Rates for specific weeds are found in the Weeds Controlled tables below. DO NOT exceed the maximum amount of this product indicated in the table below in a calendar year (365 days).

Amount of CELSIUS WG HERBICIDE				
Use Rate	oz/1,000 sq ft	g/1,000 sq ft	oz/A	g/A
Low	0.057	1.6	2.5	70
Medium	0.085	2.4	3.7	105
High	0.113	3.2	4.9	140
Yearly max.	0.17	4.8	7.4	210

Footnotes:

The single maximum application rate of 4.9 oz of product per acre correlates to 0.027 lb thienencarbazone-methyl, 0.006 lb iodosulfuron-methyl-sodium, and 0.18 lb dicamba per acre.

The maximum annual application rate of 7.4 oz of product per acre per year correlates to 0.04 lb thienencarbazone-methyl, 0.009 lb iodosulfuron-methyl-sodium, and 0.27 lb dicamba per acre.

Weeds controlled at 0.057 oz (1.6 g) of product per 1,000 sq ft

Common Name	Genus	Species
Barnyardgrass	<i>Echinochloa</i>	<i>crusgalli</i>
Blackseed plantain	<i>Plantago</i>	<i>rugell</i>
Bracted plantain	<i>Plantago</i>	<i>aristata</i>
Broadleaf plantain, common plantain	<i>Plantago</i>	<i>major</i>
Buckhorn plantain, narrowleaf plantain	<i>Plantago</i>	<i>lanceolata</i>
California buckclover	<i>Medicago</i>	<i>polymorpha</i>
Carolina fakedandelion	<i>Pyrrhopappus</i>	<i>carolinianus</i>
Carpenterweed, Indian chickweed	<i>Mollugo</i>	<i>verticillata</i>
Catscar dandelion	<i>Hypochaeris</i>	<i>radicata</i>
Common chickweed	<i>Stellaria</i>	<i>media</i>
Common millet, proso millet	<i>Panicum</i>	<i>miliaceum</i>
Common ragweed	<i>Ambrosia</i>	<i>artemisifolia</i>
Common sunflower	<i>Helianthus</i>	<i>annuus</i>
Common vetch	<i>Vicia</i>	<i>sativa</i>
Creeping beggarweed	<i>Desmodium</i>	<i>canum</i>
Curly dock	<i>Rumex</i>	<i>crispus</i>
Cutleaf evening primrose	<i>Oenothera</i>	<i>lachnata</i>
Dandelion	<i>Taraxacum</i>	<i>officinale</i>
Eastern black nightshade	<i>Solanum</i>	<i>ptychanthum</i>
Field madder	<i>Sherardia</i>	<i>arvensis</i>
Field violet, wild pansy	<i>Viola</i>	<i>arvensis</i>
Giant foxtail	<i>Setaria</i>	<i>faberi</i>
Giant ragweed	<i>Ambrosia</i>	<i>trifida</i>
Green foxtail	<i>Setaria</i>	<i>viridis</i>
Ground Ivy, Creeping Charlie	<i>Glechoma</i>	<i>hederacea</i>
Hairy bittercress	<i>Cardamine</i>	<i>hirsuta</i>
Hairy nightshade	<i>Solanum</i>	<i>villosum</i>
Henbit	<i>Lamium</i>	<i>amplexicaule</i>
Horse purslane	<i>Trianthema</i>	<i>portulacastrum</i>
Johnsongrass	<i>Sorghum</i>	<i>halapense</i>
Lawn burweed, spurweed	<i>Soliva</i>	<i>sessilis</i>
Oxeye daisy	<i>Leucanthemum</i>	<i>vulgare</i>
Palmer amaranth	<i>Amaranth</i>	<i>palmeri</i>
Pennsylvania smartweed	<i>Polygonum</i>	<i>pennsylvanicum</i>
Pitted morningglory	<i>Ipomoea</i>	<i>lacunosa</i>
Quackgrass	<i>Agropyron</i>	<i>repens</i>
Rabbitfoot clover	<i>Trifolium</i>	<i>arvense</i>
Red sorrel	<i>Rumex</i>	<i>acetosella</i>
Redroot pigweed	<i>Amaranth</i>	<i>retrofractus</i>
Shattercane	<i>Sorghum</i>	<i>bicolor</i>

Common Name	Genus	Species
Spiny sowthistle	<i>Sonchus</i>	<i>asper</i>
Stinkgrass	<i>Eragrostis</i>	<i>ciliaris</i>
Switchgrass	<i>Panicum</i>	<i>virgatum</i>
Tansy mustard	<i>Oscurainia</i>	<i>pinnata</i>
Velvetleaf	<i>Abutilon</i>	<i>thiophyllum</i>
Venus looking-glass	<i>Tradantia</i>	<i>perfoliata</i>
White clover	<i>Trifolium</i>	<i>repens</i>
White mustard	<i>Brassica</i>	<i>alba</i>
Wild buckwheat	<i>Polygonum</i>	<i>convolvulus</i>
Wild carrot	<i>Daucus</i>	<i>carota</i>
Wild oat	<i>Avena</i>	<i>fatua</i>
Wild onion	<i>Allium</i>	<i>canadense</i>

Weeds controlled at 0.085 oz (2.4 g) of product per 1,000 sq ft

Common Name	Genus	Species
American burnweed, Fireweed	<i>Erechtites</i>	<i>hieracifolia</i>
Asiatic hawkbeard	<i>Youngia</i>	<i>japonica</i>
Black nightshade	<i>Solanum</i>	<i>nigrum</i>
Broadleaf signalgrass	<i>Urochloa</i>	<i>platyphylla</i>
Browntop millet	<i>Brachiaria</i>	<i>ramosa</i>
Canada thistle	<i>Cirsium</i>	<i>arvense</i>
Canada toadflax	<i>Linaria</i>	<i>canadensis</i>
Carolina dichondra, Dichondra*	<i>Dichondra</i>	<i>carolinensis</i>
Carolina geranium, wild geranium*	<i>Geranium</i>	<i>carolinianum</i>
Carpentergrass	<i>Axonopus</i>	<i>affinis</i>
Chamberbitter	<i>Phyllanthus</i>	<i>urinaria</i>
Common lambsquarter*	<i>Chenopodium</i>	<i>album</i>
Common purslane*	<i>Portulaca</i>	<i>oleracea</i>
Common waterhemp	<i>Amaranthus</i>	<i>rudis</i>
Corn speedwell	<i>Veronica</i>	<i>arvensis</i>
Creeping speedwell	<i>Veronica</i>	<i>filiformis</i>
Dallisgrass*	<i>Paspalum</i>	<i>dilatatum</i>
Dogfennel	<i>Eupatorium</i>	<i>capillifolium</i>
Dollarweed, Pennywort*	<i>Hydrocotyle</i>	<i>Spp.</i>
Entireleaf morningglory	<i>Ipomoea</i>	<i>hederacea</i> var. <i>integrescens</i>
Facels, trampweed	<i>Facels</i>	<i>retusa</i>
Fall panicum	<i>Panicum</i>	<i>dichotomiflorum</i>
Field pepperweed	<i>Lepidium</i>	<i>campestre</i>
Field sandbur	<i>Cenchrus</i>	<i>incertus</i>
Heabane	<i>Eriogon</i>	<i>Spp.</i>
Florida betony	<i>Stachys</i>	<i>floridana</i>

continued

Common Name	Genus	Species
Gophertail lovegrass	<i>Eragrostis</i>	<i>ciliaris</i>
Green Kyllinga	<i>Kyllinga</i>	<i>brevifolia</i>
Heartwing sorrel	<i>Rumex</i>	<i>hastatulus</i>
Heath aster*	<i>Aster</i>	<i>encoides</i>
Horseweed, mare's tail	<i>Coniza</i>	<i>canadensis</i>
Hydrangea morningglory	<i>Ipomoea</i>	<i>hederacea</i>
Knawel	<i>Scleranthus</i>	<i>annuus</i>
Lady's Mantle	<i>Alchemilla</i>	<i>molis</i>
Mouse-ear chickweed	<i>Cerastium</i>	<i>glomeratum</i>
Paleseed plantain	<i>Plantago</i>	<i>virginica</i>
Parsley plant	<i>Aphanes</i>	<i>microcarpa</i>
Pokeberry	<i>Phytolacca</i>	<i>americana</i>
Poor Joe*	<i>Diodia</i>	<i>terres</i>
Prickly sida*	<i>Sida</i>	<i>spinosa</i>
Prostrate knotweed	<i>Polygonum</i>	<i>aviculare</i>
Red fescue	<i>Festuca</i>	<i>rubra</i>
Rescuegrass*	<i>Bromus</i>	<i>catharticus</i>
Russian thistle	<i>Salsola</i>	<i>tragus</i>
Shepherd's purse	<i>Capsella</i>	<i>bursa-pastoris</i>
Sicklepod	<i>Senna</i>	<i>obtusifolia</i>
Slender aster	<i>Aster</i>	<i>gracillis</i>
Sprawling horseweed	<i>Calypocarpus</i>	<i>vialis</i>
Swinecress	<i>Coronopus</i>	<i>didymus</i>
Tall fescue	<i>Festuca</i>	<i>arundinacea</i>
Texas panicum	<i>Panicum</i>	<i>texanum</i>
Thin paspalum, bull paspalum*	<i>Paspalum</i>	<i>setaceum</i>
Virginia dwarf dandelion	<i>Krigia</i>	<i>virginica</i>
White sweet clover	<i>Melilotus</i>	<i>alba</i>
Wild garlic, field garlic	<i>Allium</i>	<i>vineale</i>
Wild lettuce, tall lettuce	<i>Lactuca</i>	<i>canadensis</i>
Wild mustard	<i>Brassica</i>	<i>kaber</i>
Yellow foxtail	<i>Setaria</i>	<i>lutescens</i>
Yellow rocket	<i>Barbarea</i>	<i>vulgaris</i>
Yellow woodsorrel, oxalis*	<i>Oxalis</i>	<i>stricta</i>

Weeds controlled at 0.113 oz (3.2 g) of product per 1,000 sq ft

Common Name	Genus	Species
Annual lespedeza	<i>Lespedeza</i>	<i>striata</i>
Birdseye pearlwort	<i>Sagina</i>	<i>procumbens</i>
Black medic, hop medic	<i>Medicago</i>	<i>lupulina</i>
Dallisgrass**	<i>Paspalum</i>	<i>dilatatum</i>
Doveweed	<i>Murdannia</i>	<i>nudiflora</i>
Florida pusley	<i>Richardia</i>	<i>scabra</i>
Hemp sesbania	<i>Sesbania</i>	<i>exaltata</i>
Large crabgrass***	<i>Digitaria</i>	<i>sanguinalis</i>
Prostrate spurge	<i>Chamaesyce</i>	<i>maculata</i>
Purple cudweed	<i>Gnaphalium</i>	<i>purpureum</i>
Ryegrass (clumpy)	<i>Lolium</i>	<i>perenne</i>
Virginia buttonweed*	<i>Diodia</i>	<i>virginiana</i>
Western ragweed	<i>Ambrosia</i>	<i>psilostachya</i>
Whiteleaf sage	<i>Salvia</i>	<i>leucophylla</i>

* Weeds that may need a second application of this product for control. If weeds are showing signs of recovery, make a second application 2-4 weeks after the first. DO NOT exceed 7.4 oz (210 g) of product per acre per year (365 days) for all applications.

** Dallisgrass is best controlled with two spot applications as described above. Follow application directions for a spot application.

*** Large crabgrass (*Digitaria sanguinalis*) is best controlled at early growth stages is best controlled at early growth stages as described above. Sequential applications of CELSIUS WG HERBICIDE may be necessary.

CELSIUS WG HERBICIDE rates and measurements chart for backpack sprayers and hand-cans (For spot treatments only) Labeled Use Rates

CELSIUS WG HERBICIDE Use Rates	oz/1,000 sq ft	grams/1,000 sq ft	oz/A	grams/A
Low	0.057	1.6	2.5	70
Middle	0.085	2.4	3.7	105
High	0.113	3.2	4.9	140

Volumetric measure

Amount of CELSIUS WG HERBICIDE to use per mix size					
CELSIUS WG HERBICIDE Rate \ Mix size	1 gallon	2 gallons	3 gallons	4 gallons	5 gallons
Low	½ teaspoon	1 teaspoon	1.5 teaspoons	2 teaspoons	2.5 teaspoons
Middle	¾ teaspoon	1.5 teaspoons	2.25 teaspoons	1 tablespoon	3.75 teaspoons
High	1 teaspoon	2 teaspoons	1 tablespoon	4 teaspoons or 1 tablespoon plus 1 teaspoon	5 teaspoons or 1 tablespoon plus 2 teaspoons

Rate of CELSIUS WG HERBICIDE from measuring cone				
Rate of CELSIUS WG HERBICIDE /mix size	oz CELSIUS WG HERBICIDE per mix size			
	2 gallons	3 gallons	4 gallons	10 gallons
Low	-	0.17	0.226	0.56
Middle	0.17	0.25	0.34	0.85
High	0.226	0.34	0.45	1.13

CELSIUS WG HERBICIDE measuring cone equivalents				
Rates on CELSIUS WG HERBICIDE measuring cone in oz	Equals	Rate	Mix size	
0.17	=	Low rate	3 gallons	
0.226	=	Low rate	4 gallons	
0.25	=	Middle rate	3 gallons	
0.34	=	High Rate	3 gallons	
0.34	=	Middle rate	4 gallons	
0.45	=	High rate	4 gallons	
0.56	=	Low rate	10 gallons	
0.85	=	Middle rate	10 gallons	
1.13	=	High rate	10 gallons	

SPRAY DRIFT MANAGEMENT:

Damage to sensitive non-targeted plants can occur as a result of spray drift. Spray drift can be managed by several application factors and by spraying under the appropriate climatic conditions. Consequently, avoidance of spray drift is the responsibility of the applicator.

MANDATORY SPRAY DRIFT

Ground Boom Applications:

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy unless making a turf, pasture, or rangeland application, in which case applicators may apply with a nozzle height no more than 4 feet above the ground.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- DO NOT apply when wind speeds exceed 10 miles per hour at the application site.
- DO NOT apply during temperature inversions.

Boom-less Ground Applications:

- Applicators are required to use a Medium or Coarser droplet size (ASABE S572.1) for all applications.
- DO NOT apply when wind speeds exceed 10 miles per hour at the application site.
- DO NOT apply during temperature inversions.

Spray Drift Advisory

Boom-less Ground Applications:

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications:

- Take precautions to minimize spray drift.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

BOOM HEIGHT – Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

WINDBLOWN SOIL PARTICLES: CELSIUS WG HERBICIDE has the potential to move off-site due to wind erosion. Soils that are subject to wind erosion usually have a high silt and/or fine to very fine sand fractions and low organic matter content. Other factors which can affect the movement of windblown soil include the intensity and direction of prevailing winds, vegetative cover, site slope, rainfall, and drainage patterns. Avoid applying CELSIUS WG HERBICIDE if prevailing local conditions may be expected to result in off-site movement.

Sensitive Areas: Apply by broadcast application (boom-type sprayers) only when the potential for drift to adjacent sensitive areas (water bodies or non-target plants) is minimal (e.g., when wind is 10 mph or less and is blowing away from the sensitive areas). Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. DO NOT apply under circumstances where possible drift to unprotected persons or to food, forage, desirable plants, or crops intended for sale, use, or consumption.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

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

Non-refillable container. DO NOT reuse or refill this container. Triple 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 ¼ 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. Offer for recycling, if available or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, plant injury, other property damage, as well as other unintended consequences may result because of factors beyond the control of Bayer CropScience LP. Those factors include, but are not limited to, weather conditions, presence of other materials or the manner of use or application. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

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Celsius[®]

WG HERBICIDE

A Herbicide for the Postemergence Control of Annual and Perennial Broadleaf Weeds and Grasses in Warm-Season Turf Types (St. Augustinegrass, Bermudagrass, Centipedegrass, Zoysiagrass) listed in this label in Commercial and Residential Sites*

ACTIVE INGREDIENTS:	Thiencarbazone-methyl (CAS Number 317815-83-1)	8.7%
	Iodosulfuron-methyl-sodium (CAS Number 144550-36-7)	1.9%
	Dicamba (CAS Number 1918-00-9)	57.4%
OTHER INGREDIENTS:		32.0%
TOTAL:		100.0%

Celsius[®] WG HERBICIDE is formulated as a 68% water dispersible granule

*DO NOT use on bahiagrass, seashore paspalum or cool-season turf types, including tall fescue, fine fescue, Kentucky bluegrass, perennial ryegrass, or creeping bentgrass.

EPA Reg No. 432-1507

EPA Est. No. 264-DEU-001

STOP - READ THE LABEL BEFORE USE KEEP OUT OF REACH OF CHILDREN CAUTION

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.)

See Panel for First Aid Instructions and Booklet for Complete Precautionary Statements and Directions for Use.

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-800-331-2867

FIRST AID

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.
If swallowed:	- Immediately call a poison control center or doctor for treatment advice. - DO NOT induce vomiting unless told to do so by a poison control center or doctor. - Have person sip a glass of water if able to swallow. - DO NOT give anything by mouth to an unconscious person.

For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Net Contents
10 Ounces (283.5 Grams)
79714858
US81769664F 210901AV2

Produced for:
Bayer Environmental Science
A Division of Bayer CropScience LP
5000 CentreGreen Way, Suite 400
Cary, NC 27513

THIENCARBAZONE-METHYL	2	
IDOSULFURON	2	GROUP 2 HERBICIDE
DICAMBA	4	

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed.

ENVIRONMENTAL HAZARDS

This product is toxic to non-target plants. Non-target plants may be adversely affected if the product is allowed to drift from the areas of application. Avoid spray drift from treated area. DO NOT apply when conditions favor drift from treated areas. DO NOT apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. DO NOT contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. DO NOT drain or rinse equipment near desirable vegetation. Refer to the Spray Drift Management section of this label for additional information.

GROUNDWATER ADVISORY

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

SURFACE WATER ADVISORY

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for weeks after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of iodosulfuron-methyl-sodium from runoff water and sediment. Runoff of this product will be greatly reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

NON-TARGET ORGANISM ADVISORY

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT use or store near extreme heat or open flame.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

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

Non-refillable container. DO NOT reuse or refill this container. Triple 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 $\frac{1}{4}$ 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. Offer for recycling, if available or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Bayer

SAFETY DATA SHEET



CELSIUS® WG HERBICIDE

Version 3.0 / USA
102000022858

1/11
Revision Date: 05/21/2020
Print Date: 05/22/2020

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name	CELSIUS® WG HERBICIDE
Product code (UVP)	79690630
SDS Number	102000022858
EPA Registration No.	432-1507

Relevant identified uses of the substance or mixture and uses advised against

Use	Herbicide
Restrictions on use	See product label for restrictions.
Information on supplier	
Supplier	Bayer Environmental Science A division of Bayer CropScience LP 500 Centregreen Way, Suite 400 Cary, NC 27513 USA
Responsible Department	Email: SDSINFO.BCS-NA@bayer.com
Emergency telephone no.	
Emergency Telephone Number (24hr/ 7 days)	1-800-334-7577
Product Information Telephone Number	1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200
Eye irritation: Category 2B

Labelling in accordance with regulation HCS 29CFR §1910.1200
Signal word: Warning

Hazard statements
Causes eye irritation.

Precautionary statements
Wash thoroughly after handling.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.

SAFETY DATA SHEET



CELSIUS® WG HERBICIDE

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102000022858

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Revision Date: 05/21/2020
Print Date: 05/22/2020

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.
No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Thiencarbazone-methyl	317815-83-1	8.7
Iodosulfuron-methyl-sodium	144550-36-7	1.9
Dicamba	1918-00-9	57.4
Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt	68425-94-5	10.0

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation	Move 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 physician or poison control center immediately.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Eye contact	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 physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Most important symptoms and effects, both acute and delayed

Symptoms Irritation, Drowsiness, Dizziness

Indication of any immediate medical attention and special treatment needed

Treatment Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SAFETY DATA SHEET



CELSIUS® WG HERBICIDE

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102000022858

3/11
Revision Date: 05/21/2020
Print Date: 05/22/2020

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

 Suitable	Water spray, Carbon dioxide (CO ₂), Foam, Sand
 Unsuitable	High volume water jet

Special hazards arising from the substance or mixture In the event of fire the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Sulphur oxides, Nitrogen oxides (NO_x)

Advice for firefighters

Special protective equipment for firefighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Flash point	> 101 °C
Auto-ignition temperature	No data available
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosivity	No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.

Additional advice Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SAFETY DATA SHEET



CELSIUS® WG HERBICIDE

Version 3.0 / USA
102000022858

4/11
Revision Date: 05/21/2020
Print Date: 05/22/2020

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

- Advice on safe handling** Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.
- Hygiene measures** Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
- Conditions for safe storage, including any incompatibilities**
- Requirements for storage areas and containers** Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight.
- Advice on common storage** Keep away from food, drink and animal feedingstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Thiencarbazone-methyl	317815-83-1	10 mg/m ³ (TWA)		OES BCS*
Iodosulfuron-methyl-sodium	144550-36-7	1 mg/m ³ (TWA)		OES BCS*

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

- Respiratory protection** When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
- Hand protection** Chemical resistant nitrile rubber gloves
- Eye protection** Safety glasses with side-shields
- Skin and body protection** Wear long-sleeved shirt and long pants and shoes plus socks.
- General protective measures** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.

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Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	beige
Physical State	water-dispersible granules
Odor	characteristic
Odour Threshold	No data available
pH	8.0 - 9.5 (10 %) (23 °C) (deionized water)
Viscosity, kinematic	No data available
Vapor Pressure	No data available
Vapor Density (Air = 1)	No data available
Density	No data available
Bulk density	0.598 - 0.702 g/ml (loose)
Evaporation rate	No data available
Boiling Point	Not applicable
Melting / Freezing Point	Not applicable
Water solubility	dispersible
Minimum Ignition Energy	No data available
Decomposition temperature	Stable under normal conditions.
Self-accelarating decomposition temperature (SADT)	No data available
Partition coefficient: n-octanol/water	No data available
Flammability	No data available
Flash point	> 101 °C
Auto-ignition temperature	No data available
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosivity	No data available
Particle size	No data available
Other information	Further safety related physical-chemical data are not known.

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SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	No incompatible materials known.
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Eye contact, Skin contact, Ingestion
Immediate Effects	
Eye	Moderate eye irritation.
Ingestion	Harmful if swallowed.
Information on toxicological effects	
Acute oral toxicity	LD50 (female Rat) > 5,000 mg/kg
Acute inhalation toxicity	LC50 (male/female combined Rat) > 2.54 mg/l Exposure time: 4 h Determined in the form of a respirable fine dust. Highest attainable concentration. During intended and foreseen applications, no respirable aerosol is formed.
	LC50 (male/female combined Rat) > 10.16 mg/l Exposure time: 1 h Determined in the form of a respirable fine dust. Extrapolated from the 4 hr LC50.
Acute dermal toxicity	LD50 (male/female combined Rat) > 5,000 mg/kg
Skin corrosion/irritation	No skin irritation (Rabbit)
Serious eye damage/eye irritation	Moderate eye irritation. (Rabbit)
Respiratory or skin sensitisation	Skin: Non-sensitizing. (Guinea pig) OECD Test Guideline 406, Buehler test
Assessment STOT Specific target organ toxicity – single exposure	

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Dicamba: Based on available data, the classification criteria are not met.
Iodosulfuron-methyl-sodium: Based on available data, the classification criteria are not met.
Thiencarbazone-methyl: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure

Dicamba did not cause specific target organ toxicity in experimental animal studies.
Iodosulfuron-methyl-sodium did not cause specific target organ toxicity in experimental animal studies.
Thiencarbazone-methyl did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Dicamba was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Iodosulfuron-methyl-sodium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Thiencarbazone-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Dicamba was not carcinogenic in lifetime feeding studies in rats and mice.
Iodosulfuron-methyl-sodium was not carcinogenic in lifetime feeding studies in rats and mice.
Thiencarbazone-methyl was not carcinogenic in a lifetime feeding study in rats. Thiencarbazone-methyl caused at high dose levels an increased incidence of tumours in mice in the following organ(s): urinary bladder. The tumours seen with Thiencarbazone-methyl were caused through the chronic irritation due to the presence of bladder stones.

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Assessment toxicity to reproduction

Dicamba did not cause reproductive toxicity in a two-generation study in rats.
Iodosulfuron-methyl-sodium did not cause reproductive toxicity in a two-generation study in rats.
Thiencarbazone-methyl did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Dicamba did not cause developmental toxicity in rats and rabbits.
Iodosulfuron-methyl-sodium did not cause developmental toxicity in rats and rabbits.
Thiencarbazone-methyl did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

Only acute toxicity studies have been performed on the formulated product.
The non-acute information pertains to the active ingredient(s).

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	(Oncorhynchus mykiss (rainbow trout)) > 100 mg/l
Toxicity to aquatic invertebrates	(Daphnia magna (Water flea)) > 10 mg/l
Toxicity to aquatic plants	EC50 (Lemna gibba (gibbous duckweed)) < 0.1 mg/l Exposure time: 7 d
Biodegradability	Thiencarbazone-methyl: Not rapidly biodegradable Iodosulfuron-methyl-sodium: Not rapidly biodegradable Dicamba: Not rapidly biodegradable
Koc	Thiencarbazone-methyl: Koc: 100 Iodosulfuron-methyl-sodium: Koc: 45 Dicamba: Koc: 5.1
Bioaccumulation	Thiencarbazone-methyl: Does not bioaccumulate. Iodosulfuron-methyl-sodium: Does not bioaccumulate. Dicamba: Bioconcentration factor (BCF) 15 Does not bioaccumulate.
Mobility in soil	Thiencarbazone-methyl: Moderately mobile in soils Iodosulfuron-methyl-sodium: Mobile in soils Dicamba: Highly mobile in soils
Additional ecological information	No other effects to be mentioned.
Environmental precautions	Drift or runoff from treated areas may adversely affect non-target plants. Do not apply when weather conditions favor runoff or drift. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Dispose in accordance with all local, state/provincial and federal
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	regulations.
Contaminated packaging	Do not re-use empty containers. Triple rinse containers. Empty residue into application equipment. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR

UN number	3077
Class	9
Packaging group	III
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (DICAMBA)
RQ	Reportable Quantity is reached with 1,742 lb of product.

IMDG

UN number	3077
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (THIENCARBAZONE-METHYL, IODOSULFURON-METHYL MIXTURE)

IATA

UN number	3077
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (THIENCARBAZONE-METHYL, IODOSULFURON-METHYL MIXTURE)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

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Freight Classification: COMPOUNDS, TREE OR WEEDKILLING, N.O.I., other than poison; HAVING A DENSITY OF GREATER THAN 20 LBS. PER CUBIC FOOT

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-1507

US Federal Regulations

TSCA list

Dicamba, sodium salt	1982-69-0
Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt	68425-94-5
Polyvinylpyrrolidone	9003-39-8
Kaolin	1332-58-7
Sodium butylnaphthalenesulphonate	25638-17-9

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Yes

US States Regulatory Reporting

CA Prop65

WARNING: This product contains a chemical known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Crystalline quartz (respirable)	14808-60-7
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This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Dicamba, sodium salt	1982-69-0	NJ
Polyvinylpyrrolidone	9003-39-8	CA
Kaolin	1332-58-7	MN, RI

None.

EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

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Signal word: Caution!

Hazard statements: Causes moderate eye irritation.
Harmful if swallowed.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Section 11: Toxicological Information. Reviewed and updated for general editorial purposes.

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