NOTICE OF WEED CONTROL APPLICATION

Date of Application: October 20, 2026

Location: Community Park

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

Product Manufacturer Name: Celsius WG Herbicide
-EPA registration no. 432-1507
-Active ingredients: Thiencarbazone-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.

***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	GROUP	2	HERBICIDE
IODOSULFURON		2	
DICAMBA		4	

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 1-800-331-2867

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

LESCO DIMENSION™ 0.27G Turf and Ornamental Herbicide

or season-long control or suppression of listed annual grasses and broadleaf weeds in ornamental landscape
eas, established lawns and ornamental turf (including golf course fairways, roughs and tee boxes) and container
d field-grown nursery ornamentals.
Not for use on turf being grown for sale or other commercial use as sod, or for commercial
ed production, or for research purposes.
For use on plants intended for aesthetic purposes or climatic modification and being grown in
terior plantscapes, 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
ounties of New York is prohibited.

ctive Ingredient:
thiopyr: 3,5-pyridinedicarbothioicacid, 2- (difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-S,S-dimethyl
ster.....0.27%
ther Ingredients.....99.73%
tal.....100.00%
his product contains 0.135 pounds of the active ingredient, dithiopyr, per 50 pound bag.

KEEP OUT OF REACH OF CHILDREN
CAUTION

See back or containerside panel for additional Precautionary Statements

olics: Read the entire label. Use only according to label directions. **Before using this product, read Warranty** **Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unac-** **ceptable, return at once unopened.**

case of emergency endangering health or the environment involving this product, call 1-800-992-5994.
gricultural Chemical: Do not ship or store with food, feeds, drugs, or clothing.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

AUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and ater 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

is product is toxic to fish. Drift and runoff may adversely affect aquatic organisms. Do not apply directly to water, or to eas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water hen disposing of equipmentwashwaters

Directions For Use

is a violation of federal law to use this product in a manner inconsistent with its labeling.
ead all directions carefully before applying this product.

Use Directions for Turf

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

se Precautions for Turf

Do not use this product on golf greens.
Do not apply this product to Colonial bentgrass.
For bestresults, cultural practices that disturb the soil, such as core, spike, hydro-aeration, or verticutting, and topdress- g should be done before application of this product. This product should not be applied until turfgrasses have recovered om stresses related to these or other mechanical operations. Irrigation or rainfall within 7 days after application will im- ove the performance of this product.
Reseeding or Sprigging: Reseeding, overseeding, or sprigging of turfgrasses into areas that have been previously treated th 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 culti- tion, irrigation and fertilization should be followed. For best results, use mechanical or power seeding equipment (slit eeders) designed to give good seed-to-soil contact.
This product may be used on seeded, sodded, or sprigged turfgrass that is well established. Allow the turf to develop a ood root system and uniform stand before application. Use of this product on turfgrass not well established, weakened by ck of moisture, chemical injury, insects, disease, or temperature extremes that cause stress will increase the potential for jury. Allow turfgrass 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 roduct during time of annual bluegrass germination. For AZ, CA, NV, OR, WA, NM, ID, MT and UT, this product may con- bute to thinning or stand reduction in established stands of annual bluegrass.
Do not use clippings from treated turf formulching around vegetables or fruit trees.
Do not allow domestic animals to feed or forage 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 †	*Agrostis stolonifera*
bluegrass, Kentucky	*Poa pratensis*
fescue, fine ††	*Festuca rubra*
fescue, tall	*Festuca arundinacea*
ryegrass, perennial	*Lolium perenne*

Warm-Season Grasses

bahiagrass	*Paspalum notatum*
bermudagrass	*Cynodon dactylon*
buffalograss	*Buchloe dactyloides*
carpetgrass	*Axonopus affinis*
centipedegrass	*Eremochloa ophiuroides*
kikuyugrass	*Pennisetum clandestinum*
seashore paspalum	*Paspalum vaginatum*
St. Augustinegrass	*Stenotaphrum secundatum*
zoysiagrass	*Zoysia japonica*

† Do not apply this product to Colonial bentgrass. Use of this product on certain varieties of creeping bentgrass, such as 'Carmen', 'Cohansey', 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', 'Bilgent', 'CF-2', 'Enjoy', 'HF-93', 'Highlight', 'Ivalo', 'Jamestown', 'Koket', 'Majenta', 'Mary', 'Pennlawn', 'Tamara', 'Tatjana', 'Waldorf', and 'Waldina'.

Application Equipment and Instructions

Apply this 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 rates 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 dallisgrass (seedling) foxtail, giant foxtail, green foxtail, yellow		100 to 150 ††	2.3 to 3.4 †
barnyardgrass chickweed clover, hop crabgrass, tropical crowfootgrass dichondra, Carolina lespedeza, common kikuyugrass Mary's grass marestail† medic, black mulberry weed mustard oats, wild oxalis, buttercup oxalis (creeping woodsorrel) oxalis (yellow woodsorrel) pineappleweed ryegrass, annual ryegrass, perennial sandbur smutgrass speedwell, corn spurge, garden spurge, prostrate spurge, spotted		150 to 185 ††	3.4 to 4.25 †
bluegrass, annual bittercress carpetweed chickweed geranium, Carolina goosegrass	henbit knotweed, prostrate parsley-piert pigweed, redroot purslane, common rocket, London sheperd's-purse	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 0.38to 0.5 lbs 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 6 to 8 weeks before overseeding bermudagrass with perennial ryegrass. Specific to perennial ryegrass; not for use on Poa trivialis or bentgrass.
- Minimum seeding rate of perennial ryegrass is 400 lbs per acre.
- Use limited to fairways and roughs
- Perennial varieties of Poa annua (var. reptens) may not be controlled as well as the true annual.
- Do not apply earlier than 16 weeks afterover-seeding unless injury to the ryegrass can be tolerated.
- A follow-up treatment 16 weeks after overseeding offers 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 this 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 orunderall possible growing conditions. Under your growing conditions, alimited area 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	Ounces Product/1000 Square Feet	Ounces (Grams) Product/100 Square Feet
185	68	6.8 (193 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, control existing vegetation by hand weeding, cultivation or with a postemergence herbicide. To be effective, LESCO Dimension® 0.27G Turf and Ornamental Herbicidemust 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. Minimal 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**
barley	*Hordeum spp.*
barnyardgrass	*Echinochloa crus-galli*
bluegrass, annual	*Poa annua*
brome	*Bromus spp.*
crabgrass, large	*Digitaria sanguinalis*
crabgrass, smooth	*Digitaria ischaemum*
crabgrass, southern	*Digitaria ciliaris*
crowfootgrass	*Dactyloctenium aegyptium*
dallisgrass (seedling)	*Paspalum dilatatum*
foxtail, giant	*Setaria faberi*
foxtail, green	*Setaria verdi*
foxtail, yellow	*Pennisetum glaucum*
goosegrass	*Eleusine indica*
kikuyugrass	*Pennisetum clandestinum*
oats, wild	*Avena fatua*
ryegrass (annual & perennial)	*Lolium spp.*
sandbur	*Cenchrus spp.*
smutgrass	*Sporobolus indicus*
Broadleaf Weeds	
Common Name	**Scientific Name**
bittercress	*Cardamine spp.*
carpetweed	*Mollugo verticillata*
chickweed	*Stellaria spp.*
geranium, Carolina	*Geranium carolinianum*
henbit	*Lamium spp.*
knotweed, prostrate	*Polygonum aviculare*
lespedeza, common	*Lespedeza striata*
marestail	*Hippuris vulgaris*
medic, black	*Medicago lupulina*
mulberry weed	*Fatoua villosa*
mustard	*Brassica spp.*
oxalis, buttercup	*Oxalis pes-caprae*
parsley-piert	*Alchemilla arvensis*
pigweed, redroot	*Amaranthus retroflexus*
pineappleweed	*Matricaria matricariodes*
purslane, common	*Portulaca oleracea*
rocket, London	*Sisymbrium irio*
shepherdspurse	*Capsella bursa-pastoris*
speedwell, corn	*Veronica arvensis*
spurge, garden	*Euphorbia hirta*
spurge, prostrate	*Euphorbia humistrata*
spurge, spotted	*Euphorbia maculata*
woodsorrel, creeping	*Oxalis corniculata*
woodsorrel, yellow	*Oxalis stricta*

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. Dilution 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 fertilizer or soil salts, windinjury, hail, frostdamage, winter injury, injury from previously applied pesticide 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-targetplants.
- 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 andgreenhouses.
- 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 or 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 con ditions. 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 this product per acre per year.
- In New York State, this product may only be used by CommercialApplicators at no more than 185 pounds per acre (4.25 ounces/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 materialaccording 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 (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), 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

LESCO DIMENSION™ 0.27G Turf and Ornamental Herbicide

olerant Ornamentals

henapplied as directed under the conditionsdescribed on this label, ornamentals listed below have shown lolerce in field trials.

Name	Tolerant Cultivars	Acceptable Application Method Noted by a (X): Over the Top	Acceptable Application Method Noted by a (X): Directed	Application to Field/Landscape or Container Ornamentals Noted by a (X): Container Grown	Application to Field/Landscape or Container Ornamentals Noted by a (X): Field/ Landscape Grown
abelia, dwarf (*Abelia x grandiflora*)	nana		X		X
abyssinian red banana (*Ensete ventricosum*)	maurell	X	X	X	X
acacia redolens (*Acacia redolens*)		X	X	X	X
Ajuga carpet bugle (*Ajuga reptens*) (*Ajuga genevensis*)	bronze bronze beauty		X X		X X
almond, flowering (*Prunus glandulosa*)			X		X
apple (*Malus pumila*)			X		X
arborvitae (*Thuja occidentalis*)	nigra pyramidalis smaragh techny woodwardii		X X X X X		X X X X X
arborvitae, dwarf golden (*Thuja orientalis*)	aurea nana	X	X	X	X
ash, green (*Fraxinus pennsylvanica*)			X		X
ash, autumn purple (*Fraxinus americana*)	autumn purple		X		X
aster, Chinese (*Callistephus chinensis*)	dwarf queen		X		X
azalea (*Rhododendron spp.*)	brilliant buccaneer carror chimes (Belgian) Elsie Lee exbury fashion hardijzer beauty hershey red higasa hinocimson Holland (hybrid) Marion Lee northern lights orange cup orchidlights snow southern charm		X X X X X X X X X X X X X X X X X X		X X X X X X X X X X X X X X X X X X
azalea, flame (*Rhododendron calendulaceum*)			X		X
azalea, kinsilima (*Rhododendron obtusum*)			X		X
bamboo, heavenly (*Nandina domestica*)	compacta nana		X X		X X
barberry, Japanese (*Berberis thunbergii*)	aurea dwarf pygmy green kobold pygmy red rose glow		X X X X X X		X X X X X X
barberry, purple (*Berberis thunbergii var atropurpurea*)	atropurpurea		X		X
basket flower (*Gaillardia grandiflora*)			X		X
beach grass (*Ammophila breviligulata*)			X		X
bearberry (common) (*Arctostaphylos uva-ursi*)	Massachusetts		X		X
bee balm (*Monarda didyma*)			X		X
begonia (*Begonia spp.*)			X		X
birch, river (*Betula nigra*)			X		X
blackeyed Susan (*Rudbeckia hirta*)	goldstrum		X		X
blanket flower (*Gaillardia spp.*)			X		X
blueberry† (*Vaccinium spp.*)	bluecrop blue jay Jersey north blue northland		X X X X X		X X X X X
bottlebrush (*Callistemon citrinus*)	Little John	X	X	X	X
bougainvillea (*Bougainvillea spectabilis*)	James Walker Scarlet O' Hara	X	X X	X	X X
boxwood (*Buxus microphylla*)	japonica		X		X
boxwood, green beauty (*Buxus microphylla japonica*)	green beauty	X	X	X	X
boxwood, wellerl (*Buxus sempervirens*)	wintergem	X	X	X	X
broom (*Cytisus scoparius*) (*Genista pilosa*)	moonlight Vancouver gold		X X		X X
camellia (*Camellia japonica*) (*Camellia sasanqua*)	elegantissima mathotiana-supreme chansonette setsukgekka	X X	X X X X	X X	X X X X
candytuft (*Iberis sempervirens*)	snow white		X		X
carex, variegated (*Carex spp.*)			X		X
carpet bugle (*Ajuga reptans*) (*Ajugaganevensis*)	bronze bronze beauty		X X		X X
cedar, red (*Juniperus virginiana*)			X		X
celosia (*Celosia spp.*)			X		X
centaurea (*Centaurea montana*)			X		X
cockscomb, plumosa (*Celosia cristata*)	scarlet plumosa		X		X
coleus (*Coleus blumei*)	red flewpie		X		X
columbine (*Aquilegia spp.*)			X		X
coneflower, purple (*Echinacea purpurea*)	magnus purple	X	X X	X	X X
copper leaf (*Acalypha wilkesiana*)			X		X
coreopsis (*Coreopsis spp.*)	moonbeam		X		X
corn flower (*Centaurea spp.*)			X		X
corn flower (*Centaurea spp.*)			X		X
cotoneaster (*Cotoneaster apiculatus*)			X		X
cottonbroom (*Baccharis pilularis*)			X		X
cypress, bald (*Taxodium distichum*)			X		X
cypress, Hinoki false (*Chamaecyparis obtusa*)	gracilis		X		X
cypress, Italian (*Cupressus sempervirens*)	glauca		X		X
cypress, weeping (*Cupressocyparis leylandii*) hybrid			X		X
dianthus (sweet William) (*Dianthus spp.*)			X		X
delphinium (*Delphinium spp.*)	magic fountain		X		X
dogwood (*Cornus florida*)			X		X
dogwood, American (*Cornus sericea*)	flaviramea		X		X
Douglas fir (*Pseudotsuga menziesii*)			X		X
dusty miller (*Senecio cineraria*)		X	X	X	X
elm (*Ulmus parvifolia*)	drake		X		X
eulaliagrass (*Miscanthus sinensis*)	maiden grass	X	X	X	X
euonymus (*Euonymus japonicus*) (*Euonymus fortunei*)	Argenteo-variegate Aureomarginata colorata emerald gaiety emerald n' gold gold edge gold princess Manhattan silver king tricolor vegatus	X	X X X X X X X X	X	X X X X X X X X X X X
euryops, green leaved (*Euryopspectinatus*)	viridis	X	X	X	X
fan palm, European (*Chamaerops humilis*)			X		X
fan palm, Mexican (*Washingtonia robusta*)			X		X
fern (various) (*Asparagus spp.*)			X		X
fescue (*Festuca glauca*)			X		X
fetterbush (*Leucothoe fontanesiana*)	rainbow		X		X
ficus (*Ficus retusa*)	nitida		X		X
fir fraser (*Abies fraseri*)			X		X
forsythia (*Forsythia x 'Arnold Dwarf'*) (*Forsythia viridissima*) (*Forsythia intermedia*) (*Forsythia x 'Meadowlark'*) (*Forsythia x intermedia*) (*Forsythia suspensa*)	arnold dwarf bronxensis dwarf lynwood gold meadowlark spring glory weeping	X	X X X X X	X	X X X X X
fountain grass, purple (*Pennisetum setaceum*)	rubrum	X	X	X	X
fuchsia (*Fuchsia spp.*)			X		X
gallium (*Galium ordoratum*)			X		X
gardenia (*Gardenia jasminoides*)	mystery radicans white gem	X	X X X	X	X X X
geranium (*Pelargonium x hortorum*)			X		X
gum (*Eucalyptus citriodora*)			X		X
hawthorn (*Crataegus spp.*)	cockspur white crimson cloud enchantress Jack Evans Washington-white		X X X X X		X X X X X
hawthorn, indian (*Rhaphiolepsis indica*)	ballerina	X	X	X	X
heather, twisted (*Erica cinerea*)	Mediterranean pink		X		X
hemlock, Canada (*Tsuga canadensis*)			X		X
hibiscus (*Hibiscus spp.*)	blue bird brilliant hula girl		X X X		X X X
holly (*Ilex x 'Nellie R. Stevens'*) (*Ilex x attenuata*)	Nellie R. Stevens foster Savannah	X	X X X	X	X X X
holly, blue (*Ilex x meserveae*)	blue boy blue girl China girl		X X X		X X X
holly, cassine (*Ilex cassine*)		X	X	X	X
holly, Chinese (*Ilex cornuta*)	burfordii needlepoint		X X		X X
holly, Japanese (*Ilex crenata*)	compacta hallerie Japanese - northambeauty steeds	X	X X X X	X	X X X X
holly, yaupon (*Ilex vomitoria*)			X		X
honeysuckle (*Lonicera xylosteum*) (*Lonicera japonica*) (*Lonicera tatarica*)	Clayey dwarf halliana Canadian white Zabelli		X X X X		X X X X
ice plant (*Carpobrotus edulis*)		X	X	X	X

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), 62757-OH-001 (M), 62757-FL-001 (S), 62757-MA-002 (H), 89135-AZ-001 (A), 69759-OR-002 (MAS) 69759-OR-004 (BAN).

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LESCO DIMENSION™ 0.27G Turf and Ornamental Herbicide

Tolerant Ornamentals

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

		Acceptable Application Method Noted by a (X)		Application to Field/Landscape or Container Grown Ornamentals Noted by a (X)	
Name	**Tolerant Cultivars**	**Over the Top**	**Directed**	**Container Grown**	**Field/ Landscape Grown**
ice plant, rosea (*Drosanthemum floribundum*)		X	X	X	X
ice plant, white trailing (*Delosperma alba*)		X	X	X	X
impatiens (*Impatiens spp.*)			X		X
iris (Iris spp)	dwarf blue wedgewood		X X		X X
ivy, English (*Hedera helix*)	Bulgaria thorndale		X X		X X
jasmine, Asian (*Trachelospermum asiaticum*)			X		X
jasmine, star (*Trachelospermum jasminoides*)			X		X
juniper (*Juniperus spp.*)	Arcadia Armstrong bar harbor blue chip blue Pacific blue rug blue star broadmoor buffalo calgary carpet emerald sea emerald spreader endora compacta fruitlandi green gold tip hetzi hughes Manhattan blue parsoni pfitzeriana plumosa Prince of Wales procumbens dwarf San Jose sargent blue sargent green scandia scopulorum moonglow spartan tamariscifolia weberi Youngstown Yukon belle		X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X		X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X
juniper (*Juniperus chinensis*)	gold coast torulosa – Hollywood twisted	X X	X X	X X	X X
juniper (*Juniperus procumbnes nana*)	prostrate Japanese garden	X	X	X	X
juniper (*Juniperus sabina 'tamariscifolia'*)	tamarix	X	X	X	X
juniper (*Juniperus scopulorum*)	scopulorum skyrocket	X	X	X	X
king palm (*Archontophoenix cunninghamiana*)		X	X	X	X
laurel, Carolina cherry (*Prunus caroliniana*)	bright n' tight	X	X	X	X
laurel, mountain (*Kalmia latifolia*)			X		X
leucothoe (*Leucothoe fontanesiana*)			X		X
ligustrum, Japanese (*Ligustrum japonicum*)			X		X
maple, amur (*Acer ginnala*)	emerald elf	X	X	X	X
maple, Japanese (*Acer palmatum*)			X		X
maple, Norway (*Acer platanoides*)			X		X
maple, red† (*Acer rubrum*)	red sunset	X	X	X	X
maple, silver (*Acer saccharinum*)			X		X
maple sugar† (*Acer saccharum*)			X		X
marigold (*Tagetes patula*)	honeycomb variegata wheeleris dwarf		X X X		X X X
mock orange† (*Philedelphus spp*)	golden snowflake double white		X X		X X
mondo grass (*Ophiopogon japonicus*)			X		X
moss rose (Portulaca grandiflora)	sunny side		X		X
mountainash (*Sorbus aucuparia*)			X		X
myrtle, crape (*Lagerstroemia indica*)	laurel langer muskogee standard pink		X X X X		X X X X
myrtle, wax (*Myrica californica*)			X		X
narcissus (*Narcissus spp.*)			X		X
oak, laurel (*Quercus laurifolia*)			X		X
oak, pin (*Quercus palustris*)			X		X
oak, red (*Quercus rubra*)			X		X
oak, southern (*Quercus virginiana*)			X		X
oak, willow (*Quercus phellos*)			X		X
oleander (*Nerium oleander*)	hardy red petite pink sister agnes		X X X		X X X
osteospermum (*Osteospermum fruticosum*)	whirligig		X		X
pachysandra (*Pachysandra terminalis*)			X		X
palm, king (*Archontophoenix cunninghamiana*)			X		X
palm, queen (*Syagrus romanzoffianum*)		X	X	X	X
pampas grass (*Cortaderia selloana*)			X		X
pansy (*Viola x wittrockiana*)			X		X
paper flower (*Bougainvillea glabra*)	Barbara Karst	X	X	X	X
peach† (*Prunus persica*)			X		X
periwinkle, dwarf (*Vinca minor*)			X		X
petunia (*Petunia x hybrida*)	picoti		X		X
photinia, red tip (*Photinia x fraseri*)			X		X
pieris (*Pieris taiwanensis*)			X		X
pieris, Japanese (*Pieris japonica*)	mountain fire		X		X
pine, Afghan (*Pinus eldarica*)		X	X	X	X
pine, Austrian black (*Pinus nigra*)		X	X	X	X
pine, Japanese black (*Pinus thunbergiia*)			X		X
pine, loblolly (*Pinus taeda*)			X		X
pine, longleaf (*Pinus palustris*)			X		X
pine, mugo or Swiss Mt. (*Pinus mugo*)			X		X
pine, Scotch (*Pinus sylvestris*)			X		X
pine, slash (*Pinus elliottii*)			X		X
pine, Virginia (*Pinus virginiana*)			X		X
pine, white (*Pinus strobus*)		X	X	X	X
pineapple, guava† (*Feijoa sellowiana*)			X		X
pittosporum, tobira (*Pittosporum tobira*)	Wheeler's dwarf	X	X	X	X
plumbago, cape (*Plumbago auriculata*)	royal cape	X	X	X	X
potentilla (*Potentilla fruticosa*)) (*Potentilla nepalensis*)	abbotswood		X X		X X
privet (*Ligustrum x vicaryii*) (*Ligustrum japonicum*)	golden vicary regal texanum yellow tipped	X	X X X X	X	X X X X
privet, glossy (*Ligustrum lucidum*)			X		X
Pyracantha or firethorn (*Pyricantha x 'Gnome'*) (*Pyricantha coccinea*) (*Pyracantha koidzumii*)	gnome lalandei victory	X	X X X	X	X X X
queen palm (*Arecastrum rammanzoffianum*)			X		X
quince, Japanese† (*Chaenomeles japonica*)			X		X
Rhododendron (*Rhododendron spp*)	album Cunningham-white PJM purple gem silvery pink		X X X X X		X X X X X
rhododendron, Carolina (*Rhododendron carolinianum*)			X		X
rhododendron, catawba (*Rhododendron catawbiense*)			X		X
rhododendron, rhodie max – rosebay (*Rhododendron maximum*)			X		X
ribbon grass (*Phalaris arundinacea*)			X		X
rockcress (*Arabis caucalsca*)	snowcap		X		X
rose† (*Rosa banksiae*)	luta		X		X
rose, knockout shrub (*Rosa spp. hybrid*)	knockout	X	X	X	X
rosemary† (*Rosmarinus officinalis*)			X		X
rosemary, bog (*Andromeda polifolia*)	nana		X		X
salvia (*Salvia farinacea*)	rhea		X		X
sedum (*Sedum spurium*)	dragon blood red red carpet yellow		X X X		X X X
smoketree, royal purple (*Cotinus coggygria*)	royal purple		X		X
snapdragon (*Antirrhinum spp.*)			X		X
snowball, common (*Viburnum opulus*)	sterile	X	X	X	X
sourwood (*Oxydendrum arboreum*)			X		X
spiraea (*Astilbe X arendsii*)	fanal		X		X
spiraea (*Spiraea spp.*)	Anthony Waterer red dolchica froebeli pink goldenflame red snowmound white Van Houtte white		X X X X X X		X X X X X X
spiraea, garland (*Spiraea x arguta*) ;)			X		X
spruce, Black Hills (*Picea glauca var densata*)			X		X
spruce, Colorado blue (*Picea pungens*)	glauca	X	X	X	X
spruce, Norway (*Picea abies*)			X		X
spruce, white (Picea glauca)	conica		X		X
sweetflag grass (*Acorus calimus*)			X		X
sweetgum (*Liquidambar styraciflua*)			X		X

Net Weight: 50 lb (22.7 kg)

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LESCO DIMENSION™ 0.27G Turf and Ornamental Herbicide

olerant Ornamentals

hen applied as directed under the conditions described on this label, ornamentals listed below have shown toler-nce in field trials.

		Acceptable Application Method Noted by a (X)		Application to Field/Landscape or Container Grown Ornamentals Noted by a (X)	
Name	Tolerant Cultivars	Over the Top	Directed	Container Grown	Field/ Landscape Grown
ycamore, American (*Platanus occidentalis*)			X		X
tea tree, New Zealand *Leptospermum scoparium*)	ruby glow	X	X	X	X
Tree fern (tiki fern) *Asparagus virgatus*)			X		X
trumpet flower or Carolina Jessamine (*Gelsemium sempervirens*)			X		X
tufted hairgrass (*Deschampsia caespitosa*)			X		X
verbena, shrub *Lantana sellowiana*)			X		X
Verbena, St. Paul's (*Verbena peruviana.*)	St. Paul		X		X
viburnum (*Viburnum spp.*)	American cranberry bush		X		X
	arrowood				
	European cranberry		X		X
	bush		X		X
	linden				
	Mohican				
	wright		X		X
			X		X
			X		X
vinca (periwinkle) (*Vinca minor*)			X		X
windmill palm (*Trachycarpus fortunei*)			X		X
xylosma (*Xylosma congestum*)			X		X
yarrow (*Achillea spp.*)			X		X
yaupon (*Ilex vomitoria*)	dwarf		X		X
yew (*Taxus cuspidata*) (*Taxus x media*)	capitata	X	X	X	X
	densiformis		X		X

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

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.

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DIMENSION is a registered trademark of Dow AgroSciences LLC. SCOTTS is a registered trademark of The SCOTT Company. Cyclone and Spyker are registered trademarks of Spyker Spreaders, LLC.
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(080316) Rev. 2/1/19 VT

Net Weight: 50 lb (22.7 kg)

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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) :

GHS07

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

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.

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.

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Chemical Name/Component	OSHA PEL (mg/m³)	ACGIH TLV (mg/m³)	Dow IHG
Dithiopyr		(TWA) 20 ppm	(TWA) 0.25 mg/m³
Toluene	(Z-1)	(TWA) BEI	
	(Z-2) (TWA) 200 ppm		
	(Z-2) (CEIL) 300 ppm		
	(Z-2) (Peak) 500 ppm		
Gysum (calcium sulfate), total particulate Particles not otherwise specified (PNOS)	15	10	
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

Water Solubility	0.00014 % at 20 °C (68 °F)
Partition coeffiecient: 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 (SO_2) 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-(diffluoromethyl)-4-(2-methyl propyl)-6-(trifluoromethyl)-3,5-pyridinedicarbothioate (97886-45-8)
LC50 Inhalation Rat (mg/l) >6 g/m^3 (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.

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

Calcium Sulfate, Dihydrate:
Method: OECD TG 203 "Fish, Acute Toxicity Test"
Test Species: *Oryzias latipes*
Type: Static
Exposure Period: 96 hours
LC_{50}(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
EC_{50}(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, 81µg/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_GC_{50}(Effective growth concentration): >100 mg/L

E_bC_{50}(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).

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 (Koc > 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(Koc): 20500

Toluene

Potential for mobility in soil is very high (Koc between 0 and 50)
Partition Coefficient(Koc): 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.

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.

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

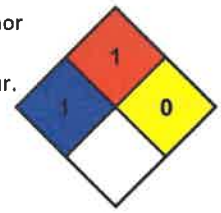
Revision date : 11/06/2015

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

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 acetolactate 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 (Floratam, Palmetto, Bitter Blue, Common, Amerishade, Raleigh, Sapphire, Delmar, Captiva)
Bermudagrass (Tifway 419, Common, Tifsport, Discovery, Celebration, Sahara)
Centipedegrass (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), Acclaim® Extra Herbicide (432-950, fenoxaprop-p-ethyl), and Specticle® 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 thiencarbazone-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 thiencarbazone-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	*Echinochloa*	*crusgalli*
Blackseed plantain	*Plantago*	*rugelii*
Bracted plantain	*Plantago*	*aristata*
Broadleaf plantain, common plantain	*Plantago*	*major*
Buckhorn plantain, narrowleaf plantain	*Plantago*	*lanceolata*
California burclover	*Medicago*	*polymorpha*
Carolina falsedandelion	*Pyrrhopappus*	*carolinianus*
Carpetweed, Indian chickweed	*Mollugo*	*verticillata*
Catsear dandelion	*Hypochoeris*	*radicata*
Common chickweed	*Stellaria*	*media*
Common millet, proso millet	*Panicum*	*miliaceum*
Common ragweed	*Ambrosia*	*artemisiifolia*
Common sunflower	*Helianthus*	*annuus*
Common vetch	*Vicia*	*sativa*
Creeping beggarweed	*Desmodium*	*canum*
Curly dock	*Rumex*	*crispus*
Cutleaf evening primrose	*Oenothera*	*laciniata*
Dandelion	*Taraxacum*	*officinale*
Eastern black nightshade	*Solanum*	*ptychanthum*
Field madder	*Sherardia*	*arvensis*
Field violet, wild pansy	*Viola*	*arvensis*
Giant foxtail	*Setaria*	*faberi*
Giant ragweed	*Ambrosia*	*trifida*
Green foxtail	*Setaria*	*viridis*
Ground ivy, Creeping Charlie	*Glechoma*	*hederacea*
Hairy bittercress	*Cardamine*	*hirsuta*
Hairy nightshade	*Solanum*	*villosum*
Henbit	*Lamium*	*amplexicaule*
Horse purslane	*Trianthema*	*portulacastrum*
Johnsongrass	*Sorghum*	*halepense*
Lawn burweed, spurweed	*Soliva*	*sessilis*
Oxeye daisy	*Leucanthemum*	*vulgare*
Palmer amaranth	*Amaranth*	*palmeri*
Pennsylvania smartweed	*Polygonum*	*pensylvanicum*
Pitted morningglory	*Ipomoea*	*lacunosa*
Quackgrass	*Agropyron*	*repens*
Rabbitfoot clover	*Trifolium*	*arvense*
Red sorrel	*Rumex*	*acetosella*
Redroot pigweed	*Amaranth*	*retroflexus*
Shattercane	*Sorghum*	*bicolor*
Spiny sowthistle	*Sonchus*	*asper*
Stinkgrass	*Eragrostis*	*cilianensis*
Switchgrass	*Panicum*	*virgatum*
Tansy mustard	*Descurainia*	*pinnata*
Velvetleaf	*Abutilon*	*theophrasti*
Venus looking-glass	*Triodanis*	*perfoliata*
White clover	*Trifolium*	*repens*
White mustard	*Brassica*	*alba*
Wild buckwheat	*Polygonum*	*convolvulus*
Wild carrot	*Daucus*	*carota*
Wild oat	*Avena*	*fatua*
Wild onion	*Allium*	*canadense*

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

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

continued

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

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

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

* 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

	oz CELSIUS WG HERBICIDE per mix size			
Rate of CELSIUS WG HERBICIDE \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 affects 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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THIENCARBAZONE-METHYL	GROUP	2	HERBICIDE
IODOSULFURON		2	
DICAMBA		4	

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

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 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.

Bayer

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.

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.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable	Water spray, Carbon dioxide (CO2), 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 (NOx)

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.

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/m3 (TWA)		OES BCS*
Iodosulfuron-methyl-sodium	144550-36-7	1 mg/m3 (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.

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.

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

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).

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

	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.

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

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:

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.

Revision Date: 05/21/2020

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