



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 30, 2019

Sharon M. Johnston
Regulatory Consultant for Mulch Manufacturing, Inc.
RegGuide
509 Tower Valley Drive
Hillsboro, MO 63050

Subject: Registration Review Label Mitigation for Isoxaben
Product Name: Weed2 & Feed Mulch
EPA Registration Number: 83822-1
Application Dates: May 6, 2018
Decision Numbers: 555129

Dear Sharon M. Johnston:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Isoxaben Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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If you have any questions about this letter, please contact Miguel Zavala by phone at 703-347-0504, or via email at zavala.miguel@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to be "Linda Arrington", written in a cursive style.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

FIRST AID	
If Swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on Skin or Clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Immediately rinse skin with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in Eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If Inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.</p>	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Environmental Hazards

The active ingredients in this product are highly toxic to fish and other aquatic organisms including oysters and shrimp. Use with care when applying to areas adjacent to any body of water. Run-off from treated area may adversely affect aquatic organisms in adjacent aquatic sites. Do not allow pesticide to enter or run off into storm drains, drainage ditches or surface waters. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems. This pesticide has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow. This pesticide may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soil and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several 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 isoxaben from runoff water and sediment.

DIRECTIONS FOR USE

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

Use Restrictions:

- Wear gloves when handling.
- Do not apply near fish pools, ponds, streams or lakes.
- Do not apply around food producing fruit or nut trees, vegetables, herbs or other edible food plants. For use ONLY on ornamental species.
- Do not apply this product on turfgrass grown for seed.
- Use only on established ornamental plants.
- Do not apply over flower seeds.
- Do not use around ornamental plants that have been weakened by stress (such as weather, disease, pesticide injury or insects/nematodes).
- Not for Sale, Distribution or Use in New York State.

Do not apply this mulch around the following plant species or injury may result:

Acanthus, oak leaf	Cranesbill, ballerina	Phlox, summer
Baby's breath, white festival	Foxglove	Rhododendron (Carolina,
Bleeding heart, luxuriant	Hydrangea	Roseum elegans)
Bugle	Juniper, Prince of Wales	Sandwort, mountain
Burning bush, dwarf	Lingwort, Bertram	Spurge
Cajeput tree	Anderson	Stonecrop
Candytuft	Mustard	Yucca, green
Coneflower, purple	Periwinkle, wine	

WHEN TO USE: For best results, remove all weeds in the beds prior to applying. Apply in the Spring or Fall when landscaping. Wait at least 12 weeks before making a repeat application.

HOW MUCH TO USE: Spread this product to a depth of 2 inches (0.0000175 lb ai/ft² (0.76 lb ai/A) isoxaben and 0.000007 lbs ai/ft² (0.3 lbs ai/A) dithiopyr. One cubic foot of this product will cover 6 square feet. Make no more than 2 applications per site per year. This product should be considered part of an integrated fertilizer program and additional fertilizer may be necessary based on soil type, rainfall and plant species. Prepare the bed by removing all unwanted plants and cultivating the soil to a depth of six inches then spread the mulch to a depth of two inches.

Weeds Prevented [Controlled]:

Aster	Hairy galinsoga	Pineappleweed
Barley, hare	Carolina geranium	Plantain
Barnyardgrass	Goosefoot, nettleleaf	Pokeweed
Bindweed, field	Goosegrass	Prostrate Spurge
Bittercress	Groundsel	Purslane
Bluegrass, annual	Henbit	Pusley, Florida
Brassbuttons, southern	Horseweed	Radish, wild
Bromegrass	Jimsonweed	Ragweed
Burclover, California	Johnsongrass (seedling)	Rocket, London
Bursage, annual	Jungle rice	Rockpurslane
Buttercup oxalis	Kikuyugrass (seedling)	Ryegrass, annual
Carpetweed	Knotweed	Ryegrass, perennial
Carrot, wild	Kochia	Sandbur, field
Celery, wild	Ladysthumb	Shattercane
Chamberbitter	Lambsquarter	Shepherdspurse
Cheat	Lanceleaf groundcherry	Sibara
Chickweed	Lespedeza, common	Sida, prickly
Clover, white	Lettuce, prickly	Signalgrass
Corn Speedwell	Lovegrass	Smartweed, Pennsylvania
Crabgrass	Mallow	Smutgrass
Creeping oxalis	Marestail	Sorrel, red
Crowsfootgrass	Mayweed	Sowthistle
Cudweed, purple	Medic, black	Speedwell
Cupgrass, Southwestern	Milkweed, honeyvine	Spotted spurge
Dandelion	Morningglory	Sprangletop, Mexican
Datura	Mustard	Spurge
Dock, common	Nettle	Stinkgrass
Dogfennel	Nightshade, black	Sunflower
Elipta	Oat, wild	Sweetclover
Eveningprimrose	Oxtongue, bristly	Swinecress
Fescue, rattle	Panicum	Tansymustard
Fiddleneck, coast	Parsley-piert	Telegraphplant
Filaree	Pennywort	Thistle
Fireweed	Pepperweed, Virginia	Turkey Mullein
Fleabane	Phyllanthus, long-stalk	Velvetleaf
Foxtail, green	Pigweed	Willoweed, panicle
Foxtail, yellow	Pimpernel, scarlet	Witchgrass
		Woodsorrel

ADDITIONAL INSTRUCTIONS FOR LANDSCAPE PROFESSIONALS

Weed Resistance Management: This product contains Dithiopyr, a Group 3 herbicide and Isoxaben, a Group 21 herbicide based on the mode of action classification system of the Weed Science Society of America. Any weed population may contain or develop plants resistant to Group 3 or Group 21 herbicides. Resistant weeds may dominate the weed population if these herbicides are used repeatedly in the same area. Such resistant weeds may be effectively managed by rotating other herbicides alone or in mixtures from different herbicide Groups labeled for control of these weeds and/or by using mechanical practices. A herbicide's mode of action classification by itself may not adequately address specific weeds that are resistant to specific herbicides. It is recommended to scout for weeds before product application for identification and growth stage, and after application to facilitate the early identification of reduced performance or weed resistance. Cleaning equipment between sites and avoiding movement of plant material between sites will greatly aid in reducing the spread of resistant weed seed. Consult your local company representative, state cooperative extension service, professional consultants or other qualified authority to determine appropriate actions for treating specific resistant weeds or to report herbicide failures.

Best Management Practices: Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is recommended. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistant weeds. Scouting after herbicide application is important because it can facilitate the early identification of weed shifts and/or weed resistance and thus provide direction on future weed management practices. One of the best ways to contain resistant weed populations is to implement measures to avoid allowing weeds to reproduce by seed or to proliferate vegetatively. Cleaning equipment between sites and avoiding movement of plant material between sites will greatly aid in reducing the spread of resistant weed seed.

WHERE TO USE: For Use in and around Parks, Playgrounds, Urban Areas, Golf courses, Recreational Areas, and other Outdoor Landscaped Sites; For Use Outside Apartment Buildings, Homes, Office Buildings, Commercial Buildings, Supermarkets, Stores, Restaurants, Hospitals, Hotels, Government Buildings and Other Public Buildings. This product may be applied to areas around the following plants, shrubs and trees.

Ornamentals (flowers, groundcovers, grasses):

Amaryllis	Horsetail, dwarf
Angel's hair	Hosta, albo-marginata
Astilbe, Deutschland	Hyacinth
Aster	Iceplant
Banana, Red Abyssinian	Iris
Bee balm	Ivy
Begonia	Jasmine
Bidens, Peter's Gold	Licorice plant, white
Blackeyed Susan	Lily
Blanket flower	Lily turf
Busy Lizzie	Lily-of-the-Nile
Cape weed	Lisianthus, pink
Carex, variegated	Lobelia
Chrysanthemum	Loosestrife, dotted
Clematis, Blue bell	Marigold, little hero
Coral bells	Mexican hat
Coreeopsis, threadleaf	Narcissus
Cranesbill	Palace purple
Creep, Virginia	Penstemon
Daffodil	Periwinkle
Dahlia, dwarf wendy pink	Petunias, garden
Daisy	Plumbago, dwarf
Daylily	Primrose
Descampsia	Rosemary
Dianthus	Ruella, dwarf Katie
Dusty miller	Sage

Euryops, dwarf
Fern
Fescue, blue
Fuschia, Santa Claus
Garlic, society
Gay feather
Gazania
Geranium
Gladiolus (corms more than 1" diameter)
Grass (beech, crimson fountain, dwarf
 Umbrella, eulalia, fountain, mondo,
 pampas, ribbon)
Guara
Hakonechloa, golden
Heather
Honeysuckle, Japanese

Snapdragon
Snow in summer
Spurge, Japanese
St. Johnswort
Star cluster
Statice
Stock
Stonecrop (*sedum*)
Sweet alyssum
Teatree, broom
Tulip
Verbena, St. Paul
Wallflower
Yarrow, common
Yucca, red
Zinnia, dwarf

Trees:

Ash, Shamel
Birch
Bottle tree
Carrot wood
Cherry, Yoshino flowering
Coolibah tree
Cottonwood
Cryptomeria, Japanese
Cypress
Dogwood
Elm, Chinese
Eucalyptus
Ficus
Ficus-mini
Fir
Florida anise tree
Ginkgo
Hawthorn, green
Hemlock, Eastern
Locust
Magnolia, Southern
Mesquite, Chilean

Mahogany
Maple
Mesquite, Chilean
Mulberry, white
Oak
Palm
Pine
 Podocarpus
Redbud
Redcedar, Easter
Sequoia, giant
Sourwood
Spruce
Sweetgum, American
Strawberry, gilt edge
Sycamore
Tab, yellow
Toyon
Tree fern
Willow

Trees (non-bearing Fruit & Nut Trees):

Almond	Elderberry	Olive
Apple	Fig	Orange
Apricot	Filbert	Peach
Avacodo	Gooseberry	Pear
Banana	Grape (American, European)	Pecan
Blackberry	Grapefruit	Pistachio
Blueberry	Kiwi	Plum
Boysenberry	Lemon	Pomegranate
Carob	Loganberry	Prune
Cherry (sour, sweet)	Macadamia nut	Raspberry
Currant	Nectarine	Walnut
Dewberry		

Shrubs:

Abelia	Heather	Rhaphiolepis
Acacia	Hibiscus	Rhododendron
Almond, dwarf pink flowering	Holly	Rose, Ramanas
Aptenia, red apple	Honeysuckle	Rose of Sharon
Aralia, Japanese	Hopseed bush	Silver berry, fruitland
Arborvitae	Ixora	Skimmia
Azalea	Jessamine, Carolina	Smoke Tree
Bamboo	Juniper	Spiraea
Barberry	Lantana	Spurge, Japanese
Bluebeard, dark knight	Laurel, Mountain	Sumac, African
Bottlebrush	Lavander	Summersweet
Bougainvillea	Leaf	Sweet pea shrub
Boxwood	Leucothoe	Sweetspire, Henry Garnet holly leaf
Brush cherry, dwarf	Lilac	Tea tree, New Zealand
Camellia	Lily-of the-Nile, Queen Anne	Ternstroemia, Japanese
Cassia, feathery	Lily-of-the-Valley	Viburnum
Century plant	Mahonia	Wayfaring tree
Cinquefoil (Potentilla)	Mallow, cape	Weigela
Cleyera, Japanese	Maple	Wintercreeper, bigleaf
Cotoneaster	Marguerite, blue	Woadwaxen
Coyotebush	Marlberry, chirimen	Woodbine
Cranberry bush	Morning glory, bush	Xylosma
Cranberry bush, dwarf	Myrtle	Yew
Cypress	Nightshade, Paraguay	Yewpine
Daphne, fragrant	Oleander	Yucca
Deutzia, nakiana-dwarf	Osmanthus, fortunes	
Dogwood	Palm	
Euonymus	Photinia, Fraser's	
Euryops, dwarf	Pine, mugo-mugho	
Fern	Pink breath of heaven	
Forsythia	Pittosporum	
Fringe flower	Plumbago	
Gardenia	Privet (Ligustrum)	
Gracilis, slender	Pyracantha	

Storage & Disposal

Pesticide Storage: Store in a cool, dry place away from children and animals.

Pesticide Disposal & Container Handling: Non-refillable container. Do not reuse or refill this bag. **If Empty:** Place in trash or offer for recycling if available. **If Party Filled:** Call your local solid waste agency for disposal instructions.

IMPORTANT: READ BEFORE USE

To the extent consistent with applicable law, seller makes no warranty, express or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use or handling is contrary to label instructions.

{Additional optional marketing bullets:}

- Used by Master Gardeners and Universities
- The Next Generation Mulch
- More Than Just Mulch
- Contains Cypress [Bark] Mulch
- Contains Hardwood [Bark] Mulch
- Contains Pine [Bark] Mulch
- Contains Softscape Mulch
- Contains Colored Mulch
- With Two-Year Color
- Color Extended
- Extended Color
- With [Extended Release] Fertilizer
- With [Contains] Post-Emergent & Pre-Emergent Herbicide [Weed Control]
- With [Contains] Gallery® & Dimension® Herbicides
- With [Contains] Gallery® Pre-Emergent Plus Dimension® Post-Emergent Herbicide
- With [Contains] Dow Gallery® For Pre-Emergent Weed Control
- With [Contains] Dow Dimension® For Post-Emergent Weed Control
- With [Contains] Dow Gallery® Herbicide
- With [Contains] Dow Dimension® Herbicide
- Dow Gallery® & Dow Dimension®
- Controls Listed Grasses & Weeds
- Controls Listed Weeds
- Contains Raw Forest Products, Reprocessed Wood, Colorant & Herbicide
- Contains Raw Forest Products & Herbicide
- Uses Natures Reflections® Colorants [For Long-Lasting Color
- Brown
- Black
- Red]

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