



ISOXABEN 0.38 PLUS

TURF FERTILIZER CONTAINING GALLERY®,
A PREEMERGENCE

HERBICIDE FOR CONTROL OF
CERTAIN BROADLEAF WEEDS AND
SUPPRESSION OF ANNUAL GRASSES

Intended for use by commercial pest control operators

Not for sale, distribution or use in New York State.

ACTIVE INGREDIENT:

Isoxaben: N-[3-(1-ethyl-1-methylpropyl)-5-isoxazolyl]
-2,6-dimethoxybenzamide and isomers . . . 0.38%

OTHER INGREDIENTS: 99.62%
TOTAL: 100.00%

EPA Reg. No. 62719-178-32802
EPA Est. No. 59144-GA-1(A), 32802-MO-1(B),
37351-CO-1 (C)

First letter of bag code shows manufacturing establishment.

GALLERY® is a trademark of The Dow Chemical
Company ("Dow") or an Affiliated Company of Dow

Manufactured for: HOWARD JOHNSON'S ENTERPRISES, INC.
9675 S 60th Street, Franklin, WI 53132

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

Notice: Read the entire label. Use only according to label direc-
tions. **Before using this product, read Warranty Disclaimer,
Inherent Risks of Use, and Limitation of Remedies at the
end of Directions for Use. If terms are unacceptable,
return at once unopened.**

50 lbs Covers up to 10,870 sq. ft.

GUARANTEED ANALYSIS

22-0-6

Total Nitrogen (N) 22%
22.00% Urea Nitrogen*
Soluble Potash (K₂O) 6%

Derived From: Muriate of Potash, Polymer
Coated Urea, Urea

*6.60% Slowly Available Nitrogen from
Polymer Coated Urea

Chlorine (Cl), not more than 6%

100206646
Net Weight 50 lbs (22.70 kg)

Information regarding the contents and levels of metals in this product is
available on the Internet at: <http://aapfco.org/metals.html>

ISOXABEN	GROUP	21	HERBICIDE
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ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or inadvertent application to areas adjacent to treated turfgrasses may result in reduced germination or emergence of nontarget plants. Do not contaminate water when disposing of equipment washwaters.

Ground Water Advisory: The pesticide has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory: 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 months or more 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.

Read all directions carefully before applying 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 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 of this label about personal protective equipment (PPE) and restricted entry interval. The requirements in the box only apply to uses of this product that are covered by the Worker Protection standard.

Do not enter or allow workers to enter during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is

- Coveralls,
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks.

Non-Agricultural Use Requirements

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

Entry Restrictions for Non-WPS Uses: When this product is applied to turf and ornamental plantings in landscape settings, do not enter or allow others to enter the treated area until dusts have settled. If soil incorporation is required after the application, do not enter or allow others to enter the treated area (except those persons involved in the incorporation) until the incorporation is complete. If the incorporation is accomplished by watering-in, do not enter or allow others to enter the treated area until the surface is dry after watering-in.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container. Protect stored product from moisture. In case of leak or spill, contain material and dispose as waste.

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

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

PRODUCT INFORMATION

This turf fertilizer contains Gallery®, a preemergence herbicide for control of certain broadleaf weeds and suppression of annual grasses in established turfgrasses. Apply in late summer to early fall, in early spring, or anytime prior to germination of target weeds.

USE PRECAUTIONS

Howard Johnson's Isoxaben 0.38 Plus controls weeds germinating from seeds. Howard Johnson's Isoxaben 0.38 Plus does not control established weeds. Existing weeds should be controlled with postemergence herbicides. To insure optimal fertilizer and herbicidal response, water treated areas as soon as possible after application. A single rainfall or sprinkler irrigation of 0.5 inch or more is required to activate this product.

Use Restrictions

Do not apply more than 833 lb of Howard Johnson's Isoxaben 0.38 Plus per acre.

Chemigation: Do not apply Howard Johnson's Isoxaben 0.38 Plus through any type of irrigation system.

Not for sale, distribution or use in New York State.

Do not apply by air.

Do not apply Howard Johnson's Isoxaben 0.38 Plus to turfgrass grown for seed.

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KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes eye irritation. Harmful if swallowed, Inhaled Or Absorbed Through The Skin. Avoid breathing dust and contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirts and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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: 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 inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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 for emergency medical treatment information.

Treatment of Turfgrass Species not listed on the label for Howard Johnson’s Isoxaben 0.38 Plus. Users who wish to use Howard Johnson’s Isoxaben 0.38 Plus on a plant species not listed on this label must determine the suitability for such use by treating a small area or small number of plants at a specified rate. Prior to treating a larger area, observe the treated area/plants for any sign of herbicidal injury during 30 to 60 days of typical growing conditions.

Application Instructions

Apply Howard Johnson’s Isoxaben 0.38 Plus using a drop or rotary-type spreader designed to apply granular fertilizer. Calibrate application equipment prior to use according to manufacturer’s directions. Check frequently to be sure equipment is working properly and distributing granulars uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or plant injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first. When using a drop-type spreader, a splashboard mounted below the release point will provide more even granule distribution. Check equipment frequently to verify calibration and proper functioning.

Broadcast Application Rates Apply Howard Johnson’s Isoxaben 0.38 Plus at a broadcast rate of 200 to 250 lb per acre (4.6 to 5.7 lb per 1000 sq ft) . A minimum rate of 200 lb per acre (4.6 lb per 1000 sq ft will provide optimum results. Use the higher rate in the rate range where heavy weed infestation is anticipated.

WEEDS CONTROLLED OR SUPPRESSED

Weeds controlled when applied at 200 to 250 lb per acre (4.6 to 5.7 lb per 1000 sq ft)

Common Name	Scientific Name	Common Name	Scientific Name
burweed, lawn	<i>Soliva pterosperma</i>	parsely-piert	<i>Alchemilla arvensis</i>
buttercup	<i>Ranunculus spp.</i>	pennywort, lawn	<i>Hydrocotyle sibthorpioides</i>
celery, wild	<i>Apium leptophyllum</i>	pineappleweed	<i>Matricaria matricarioides</i>
chickweed, common	<i>Stellaria media</i>	speedwell, thymeleaf	<i>Veronica serpyllifolia</i>
chickweed, mouseear	<i>Cerastium vulgatum</i>	spurge, prostrate	<i>Euphorbia humistrata</i>
foolsparsely	<i>Aethusa cynapium</i>	spurge, spotted	<i>Euphorbia maculata</i>
geranium, Carolina	<i>Geranium carolinianum</i>	spurry, corn	<i>Spergula arvensis</i>
henbit	<i>Lamium amplexicaule</i>	woodsorrel, creeping	<i>Oxalis corniculata</i>
knotweed, prostrate	<i>Polygonum aviculare</i>	woodsorrel, yellow	<i>Oxalis stricta</i>
mallow, little	<i>Malva parviflora</i>		

Weeds partially controlled by a single application or controlled by repeat applications when applied at 200 to 250 lb per acre (4.6 to 5.7 lb per 1000 sq ft)

Common Name	Scientific Name	Common Name	Scientific Name
clover, spp. ¹	<i>Trifolium spp.</i>	plantain, broadleaf	<i>Plantago major</i>
clover, white ¹	<i>Trifolium repens</i>	plantain, buckhorn	<i>Plantago lanceolata</i>
dandelion ¹	<i>Taraxacum officinale</i>	plantago, slender	<i>Plantago elongata</i>
medic, black	<i>Medicago lupulina</i>		

Weeds suppressed or partially controlled when applied at 200 to 250 lb per acre (4.6 to 5.7 lb per 1000 sq ft)

Common Name	Scientific Name	Common Name	Scientific
bluegrass, annual	<i>Poa annua.</i>	crabgrass	<i>Digitaria spp.,</i>
ryegrass, annual (Italian)	<i>Lolium multiflorum</i>		

Weed Resistance Management

Howard Johnson’s Isoxaben 0.38 Plus, which contains the active ingredient isoxaben is a Group 21 herbicide based on the mode of action classification system of the Weed Science Society of America.

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

The continued effectiveness of this product depends on the successful implementation of a weed resistance management program. To aid in the prevention of developing weeds resistant to this product, users should:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Start with a clean field, using either a burndown herbicide application or tillage.
- If using post-emergence herbicides or tank mixes, control weeds early when they are relatively small.
- Apply full rates of Howard Johnson’s Isoxaben 0.38 Plus for the most difficult to control weed in the field at the specified time to minimize weed escapes.
- Scout fields after application to detect weed escapes or shifts in control of weed species.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
- Report any incidence of non-performance of this product against a particular weed to your local company representative, local retailer, or county extension agent.
- Contact your local company representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective modes of action for each target weed.
- If resistance is suspected, treat weed escapes with an herbicide having a mode of action other than Group 21 and/or use non chemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Suspected herbicide-resistant weeds many be identified by these indicators:
- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

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

- Use of a broad spectrum herbicide with other mode of action as a foundation in a weed control program, if appropriate.
- Utilize sequential applications fo herbicides with alternative modes of action.
- Rotate the use of this product with non-Group 21 herbicides.
- Avoid making more than two sequential application of Howard Johnson’s Isoxaben 0.38 Plus and any other Group 21 herbicides with in a single growing season unless mixed with an herbicide with a different mode of action with an overlapping spectrum for the difficult-to-control weeds.
- Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crops seeds, as part of an integrated weed control program.
- Use good agronomic principles that enhance crop development and crop competitiveness.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Manage weeds in and around fields to reduce weed seed production.

USES Turfgrass

Howard Johnson’s Isoxaben 0.38 Plus may be used as a preemergence treatment for control of certain broadleaf weeds in established cool season and warm season turfgrasses.

Apply Howard Johnson’s Isoxaben 0.38 Plus anytime prior to germination of target weeds

Note: Refer to the Product Information section of this label for general use precautions and information on application rates and weeds controlled prior to using this product.

Use Restrictions:

Apply Howard Johnson’s Isoxaben 0.38 Plus only on established turfgrass. Apply to newly seeded turfgrass (including overseeded turfgrass) **only** after seedings are established(three leaf stage and tillering) and well rooted. Do not overseed established turfgrass sooner than 60 days following an application of this product.

- Do not apply Howard Johnson’s Isoxaben 0.38 Plus to golf course putting greens.
- Do not apply Howard Johnson’s Isoxaben 0.38 Plus to dichondra.

This product may be used on the following turfgrass species:

Established Cool Season Turfgrass:

Common Name	Scientific Name	Common Name	Scientific Name
bentgrass, colonial	<i>Agrostis tenuis,</i>	bentgrass, creeping	<i>Agrostis stolonifera</i>
bluegrass, Kentucky	<i>Poa pratensis</i>	fescue, chewings	<i>Festuca rubra var. commutata</i>
fescue, creeping red	<i>Festuca rubra</i>	fescue, sheep	<i>Festuca ovina</i>
fescue, tall	<i>Festuca arundinaceae</i>	ryegrass,perennial	<i>Lolium perenne</i>

Established Warm Season Turfgrass:

Common Name	Scientific Name	Common Name	Scientific Name
bahiagrass	<i>Paspalum notatum var. Saurae parodi</i>	bermudagrass	<i>Cynodon dactylon</i>
centipedegrass	<i>Eremochia ophiuroides</i>	fescue, tall	<i>Festuca arundinaceae</i>
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Zoysiagrass	<i>Zoysia japonica</i>
Zoysiagrass	<i>Zoysia tenuifolia</i>		

Terms and Conditions of Use: If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitations 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. 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 instruction (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornados, 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: 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. 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 Seller or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.