

U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

4 12/9/19

X Registration
Reregistration
(under FIFRA, as amended)

Term of Issuance:
Unconditional

Name of Pesticide Product:

POACURE

Name and Address of Registrant (include ZIP Code):

Moghu Research Center Ltd. c/o toXcel, LLC 7140 Heritage Village Plaza Gainesville, VA 20155

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:	Date:	
2125	12/9/19	
Daniel Kenny, Chief		
Herbicide Branch, Registration Division (7505P)		

EPA Form 8570-6

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2. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

Basic CSF dated 4/19/2016

If you have any questions, please contact Sarah Meadows by phone at 703-347-0505, or via email at meadows.sarah@epa.gov.

Enclosure

ACCEPTED 12/9/2019 Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 89633-4

Methiozolin Group Not Classified Herbicide

PoaCure[®]

PRE- AND POST EMERGENCE GRASS HERBICIDE FOR SELECTIVE CONTROL OF ANNUAL BLUEGRASS AND ROUGHSTALK BLUEGRASS IN GOLF COURSE TURF INCLUDING CREEPING BENTGRASS PUTTING GREENS

ACTIVE INGREDIENT

Methiozolin*	25% (w/w)
OTHER INGREDIENTS	` '
TOTAL	100%

^{*5-(2,6-}Difluoro-benzyloxymethyl)-5-methyl-3-(3-methyl-thiophen-2-yl)-4,5-dihydro-isoxazole) This product contains 2.0 lbs. active ingredient per gallon.

Contains petroleum distillates

DANGER/PELIGRO

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.)

FIRST AID				
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. 			
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, and then continue rinsing. Call 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. Do not give any liquid to the person. 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, and then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. 			

For emergency information regarding the use of this product call the **National Pesticides Information Center** at 1-800-858-7378, 8:00 AM to 12:00 PM Pacific Time (PST), Monday to Friday. Or, call the poison control center 1-800-222-1222.

Have the product container or label with you when calling the poison control center, or doctor or when going for treatment.

NOTE TO PHYSICIAN: Contains petroleum distillate-vomiting may cause aspiration pneumonia. Probable mucosal damage may contraindicate the use of gastric lavage.

Manufactured for
Moghu Research Center Ltd.
B-228, GAJEONG-RO 99
YUSEONG, DAEJEON, 34115, SOUTH KOREA

EPA Registration No. 89633-4 EPA Establishment No. 93519-KOR-1

Net Contents: __ gal.

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive. Causes skin burns. Do not get in eyes, on skin or on clothing. Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Contains petroleum distillates. Wear coveralls, long-sleeve shirt and long pants, socks and shoes, chemical-resistant gloves made of barrier laminate, nitrile/neoprene rubber ≥ 14 mils, or viton ≥ 14 mils, and protective eyewear (goggles, face shield, or safety glasses).

When mixing/loading wear a chemical resistant apron. For overhead exposure wear chemical resistant headgear. When cleaning equipment wear a chemical-resistant apron.

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. Do not contaminate water when disposing of equipment wash-water or rinsate.

Groundwater Advisory:

This chemical and a degradate of concern have properties and characteristics associated with chemicals detected in groundwater. This chemical and a degradate of concern 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 a medium potential for reaching both surface water and aquatic sediment via runoff for several months or more after application.

PHYSICAL AND CHEMICAL HAZARDS

Do not mix or allow to come in contact with an oxidizing agent. Hazardous chemical reaction may occur.

DIRECTIONS FOR USE

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

Read entire Directions for Use and Disclaimer of Warranties 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 area during application. For any requirements specific to your state, consult the agency in your state responsible for pesticide regulation.

PRODUCT INFORMATION

PoaCure® is a pre- and post-emergence herbicide that will selectively control annual bluegrass (*Poa annua* var. *annua*), perennial type of annual bluegrass (*Poa annua* var. *reptans*), and roughstalk bluegrass (*Poa trivialis*) in various established golf course turf including [1] bent grass putting greens, [2] fairways, and other turf areas consisting of various cool and warm season turfgrasses.

PoaCure® exhibits strong seed head suppression activity when applied at the flowering stage of annual bluegrass.

PoaCure® provides pre-emergence control of crabgrass (*Digitaria* sp.) and goosegrass (*Elucineindica*), and certain broadleaf weeds such as common speedwell (*Veronica arvensis*), Persian speedwell (*Veronica persicaria*), common chickweed (*Stellaria media*), big chickweed (*Cerastium*

vulgatum), and hairy bittercress (Cardamine hirsuta). **PoaCure**® controls resistant biotypes of **Poa** annua; but specific efficacy may vary depending on resistance mechanism.

PoaCure[®] is an isoxazoline class of chemical exhibiting a new mode of action associated with cell wall metabolism, unlike any other existing herbicide mechanisms.

PoaCure® is a very slow acting herbicide, exhibiting herbicidal activity via plant cell wall biosynthesis inhibition. The typical herbicidal symptom is stunting in susceptible grasses. *Poa* growth is stopped within a day, but it is difficult to recognize in golf course environments where low mowing is regularly practiced. There are almost no visual symptoms such as yellowing, whitening, burning, or twisting in the first 2 weeks. Stunting becomes visually obvious 2 to 3 weeks after application, followed by slow desiccation of the entire plant starting from the meristematic tissue. *Poa* responses become clear in about 1 month, including an off-colored to slightly brownish tint and sunken appearance. Usually, *Poa* fades away in the second month. This process typically happens faster during fall applications or when temperature declines; and may be slower during spring applications or when it warms up.

PoaCure[®] activity is mainly based on root uptake, and thus enhanced by irrigation or rainfall (0.1 to 0.2") after spray before foliage dries. Post-application irrigation (to wash off the foliage) is required to obtain optimum activity, especially for fairway height turfgrass, or any situation having high foliage interception of spray droplets such as with high plant density, stolon/leaf overlap, or high thatch accumulation.

Apply *PoaCure*[®] using a wide range of spray volumes from 30 to 200 gallons per acre. Do not tank mix with an adjuvant.

Apply *PoaCure*® when the average daily temperature is between 50° and 80 °F, when both *Poa* weeds and turfgrasses are actively growing. Do not apply *PoaCure*® prior to or during periods of heat stress and winter dormancy, or to turf that is stressed by management activities such as core cultivation, scalping, or top dressing.

Apply **PoaCure**® at a rate of 0.2 to 0.4 gallons per acre, which is equivalent to 0.6 to 1.2 fluid ounces per 1,000 ft², or 1.9 to 3.8 liters per hectare, respectively, at each application time.

PoaCure® activity is most efficient when used in repeated applications in 2- to 3-week- intervals. The number of applications is between 1 and 6, depending on locations (see Tables below).

Apply **PoaCure®** using conventional ground application equipment.

Herbicide Resistance Management: For further information on **PoaCure**® mode of action, or to report suspected resistance, contact http://poacure.com

PoaCure® activity is most efficient when used according to the use directions below.

RESTRICTIONS

- 1. Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.
- 2. Do not apply this product through any type of irrigation system.
- 3. Do not apply this product by air.

Mechanical stresses:

- 1. Do not apply *PoaCure*[®] within one week of aeration followed by aggressive topdressing and brushing. If the application timing overlaps with aeration, skip or delay the application of *PoaCure*[®] until turf has recovered. For example, if you applied *PoaCure*[®] two times in March at 2-week intervals and aerated in early April, then skip the third application. Resume application at 4 weeks from the second application or about 2 weeks after aeration.
- 2. Do not use a roller to press the surface within 2 days after spraying.
- 3. High traffic, scalped, machine-injured areas etc. may be sensitive to *PoaCure*®. Avoid application to these stressed areas.

Shade, saturated soil conditions, or extended rainfall during/after treatment: Unfavorable bentgrass responses are expected to be greater under these conditions. Do not apply, or if you have applied and observe any sign of thinning in these areas, skip an application until your turf grass is fully recovered.

Summer to early fall application: Do not apply when summer air temperatures are consistently above 85 °F or immediately following stressful summer weather. Allow at least a month for the turfgrass to fully recover in cool weather before starting applications.

Late fall to winter application: Do not apply when consistent freezing temperatures are expected. Application may still be made when occasional frosts occur in the morning.

Post-application aerification: Do not aerate within a week after application. Immediate post-application aeration will destroy the herbicide treatment layer on the soil surface and *Poa* control efficacy will decrease.

Plant Growth Regulators (PGRs): During application sequences of **PoaCure**[®], stop using any PGR, except for Trinexapac-ethyl, until **Poa** control is completed. PGRs may negatively impact turfgrass health, and are generally antagonistic to **PoaCure**[®] action.

Other herbicides or fungicides: Do not tank-mix with any other products.

[1] DIRECTIONS FOR USE IN PUTTING GREENS

Turfgrass species:

- Creeping bentgrass, Agrostis stolonifera
- Hybrid bermudagrass, Cynodon dactylon x C. transvaalensis

Mixing Instructions

Add 0.2 gallons of *PoaCure*® and 30-200 gallons of water per acre to sprayer device.

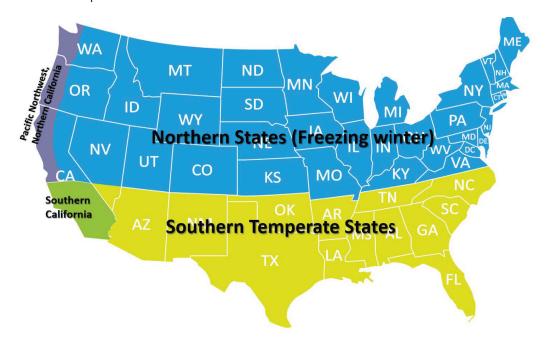
Rate, regional application time, number of applications, maximum application rates, and retreatment interval

Application rate (gallons per acre/lbs ai per acre)	Region**	Application time	Number of applications	Re- Treatment Interval (Weeks)	Maximum annual application rate (gallons per acre per year/lbs. ai per acre per year)
0.2*/0.4	Northern States	October to November	1 to 2		1.0/2.0
	(Freezing winter)	April to June	1 to 3		
	Southern Temperate States	November to February	1 to 5	2 to 3	1.0/2.0
	Pacific Northwest, Northern California	February to November	1 to 6		1.2/2.4
	Southern California	November to May	1 to 6		1.2/2.4

^{*}This rate is equivalent to 0.6 fluid ounces **PoaCure**® per 1,000 ft², or 1.9 liters per ha, or 0.4 lbs. active ingredient (ai) per acre.

^{**} Generally, the climate description is as follows: (1) Northern States (Freezing winter): Typical temperate climates with hot summer and freezing winter and/or permanent snow cover, and long winter and cool summer in the Mountains (CO, WY, MT, ID, UT, NV, Eastern part of WA, OR, CA,

some part of northern AZ), the application window can vary depending on spring and fall season year by year, and the micro-climates within states; (2) Southern Temperate states: Temperate climates with mild winter and hot/long summer, the application window can vary depending environmental conditions and the micro-climates within states; (3) Pacific Northwest and Northern California; Cool for the whole year; the application window can vary depending environmental conditions and the micro-climates within states. (4) Southern California: Hot in summer and cool in winter. However, specific micro-climate may vary significantly within a region. The application window can vary depending on environmental conditions and the micro-climates within states. The geographical regions are as shown in the map below.



RESTRICTIONS

- Do not apply when creeping bentgrass is in heat stress or has poor root development.
- Do not apply prior to or during creeping bentgrass winter dormancy and until fully greened up and there is active plant growth (Northern States).
- Do not over-seed creeping bentgrass within 45 days of the last application.
- Do not apply to putting greens consisting of velvet bentgrass or colonial bentgrass.
- Do not apply to hybrid bermudagrass putting greens over-seeded with rough bluegrass (Poa trivialis).

PRECAUTIONS

- **PoaCure**® has not been evaluated under all microclimates or against all biotypes of annual and roughstalk bluegrass. Therefore, performance may be less effective in some locations and against some biotypes of these weed species.
- PoaCure[®] may temporarily reduce overall turfgrass cover when Poa weed infestation is high.

[2] DIRECTIONS FOR USE IN PERMANENTALY ESTABLISHED GREEN COLLARS, APPROACHES, FAIRWAYS, OR TEES

Turfgrass species:

- Creeping bentgrass, Agrostis stolonifera
- Kentucky bluegrass, Poa pratensis
- Perennial ryegrass, Lolium perenne
- Fescues, Festuca rubra or F. arundinacea
- Bermudagrass, Cynodon dactyon
- Hybrid bermudagrass, Cynodon dactylon x. C. transvaalensis
- Zoysiagrass, Zoysia japonica or Z. matrella
- Seashore paspalum, Paspalum vaginatum
- Kikuyugrass, Pennisetum clandestinum

Mixing Instructions

Add 0.4 gallons of *PoaCure*® and 30-200 gallons of water per acre to sprayer device.

Rate, regional application time, number of applications, maximum application rates, and retreatment interval

Application rate (gallons per acre/lbs. ai per acre)	Region**	Application time	Number of applications	Re-treatment Interval (Weeks)	Maximum annual application rate (gallons per acre per year/lbs. ai/acre/yr)
0.4*/0.8	Northern States (Freezing	September to November	1 to 3	2 to 3	2.4/4.8
	winter)	April to June	1 to 3		
	Southern Temperate States	October to February	1 to 3		1.2/2.4
	Pacific Northwest, Northern California	February to November	1 to 4		1.6/3.2
	Southern California	November to May	1 to 4	0.0 154	1.6/3.2

^{*}This rate is equivalent to 1.2 fluid ounces **PoaCure**® per 1,000 ft², or 3.8 liters per ha, or 0.8 lbs. active ingredient (ai) per acre.

^{**} Generally, the climate description is as follows: (1) Northern States (Freezing winter): Typical temperate climates with hot summer and freezing winter and/or permanent snow cover, and long winter and cool summer in the Mountains (CO, WY, MT, ID, UT, NV, Eastern part of WA, OR, CA, some part of northern AZ), the application window can vary depending on spring and fall season year by year, and the micro-climates within states; (2) Southern Temperate states: Temperate climates with mild winter and hot/long summer, the application window can vary depending environmental conditions and the micro-climates within states; (3) Pacific Northwest and Northern California; Cool for the whole year; the application window can vary depending environmental conditions and the micro-climates within states. (4) Southern California: Hot in summer and cool in winter. However, specific micro-climate may vary significantly within a region. The application window can vary depending on environmental conditions and the micro-climates within states. The geographical regions are as shown in the map above in [1] DIRECTIONS FOR USE IN PUTTING GREENS.

RESTRICTIONS

Do not over-seed within 45 days of the last application or apply *PoaCure*® within 12 weeks of over-seeding.

PRECAUTIONS

- PoaCure[®] has not been evaluated under all microclimates or against all biotypes of annual
 and roughstalk bluegrass. Therefore, performance may be less effective in some locations,
 and against some biotypes of these weed species.
- PoaCure[®] may temporarily reduce overall turfgrass cover when Poa weed infestation is high.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original, tightly closed container in a secure, dry area inaccessible to children.

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. 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 puncture and dispose of in a sanitary landfill, or by incineration, or other procedures approved by state and local authorities

WARRANTY STATEMENT

Moghu Research Center warrants that this product complies with the specifications expressed on the label. To the extent consistent with applicable law, Moghu Research Center makes no other warranties, and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose.