

Introduction

Kabuto™ Fungicide SC is a proprietary liquid formulation featuring isofetamid proven to provide preventative, systemic, and curative dollar spot control in turfgrass, including control of resistant dollar spot isolates. Kabuto inhibits all stages of development in the fungal lifecycle, and can be applied up to eight times per year as part of a resistance management program.

General Information

FORMULATION

Flowable suspension concentrate (SC) with 3.33 lb./gal. or 36.0% wt./wt. of the active ingredient isofetamid.

MODE OF ACTION AND ROTATION

The Kabuto active ingredient isofetamid, a Group 7 fungicide (Carboxamides), inhibits succinate-dehydrogenase (SDH) in complex II of fungal respiration.

USE SITES

Kabuto can be used on professionally managed turf areas including golf courses, (greens, tees, and fairways), residential sites, commercial and industrial areas, parks, school grounds, and others as listed.

LABELED DISEASES

Kabuto is proven to provide preventative and curative control of dollar spot disease.

RESISTANCE MANAGEMENT

A disease management program that includes alternation or tank mixes between Kabuto and other labeled fungicides that have a different mode of action and/or control pathogens not controlled with Kabuto is essential to prevent diseases-resistant pathogens populations from development.

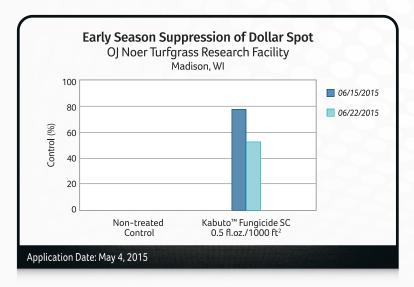
REI

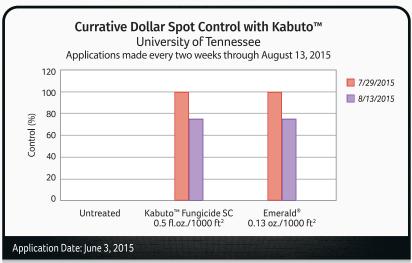
Workers may enter treated areas after the restricted entry interval of 12 hours.

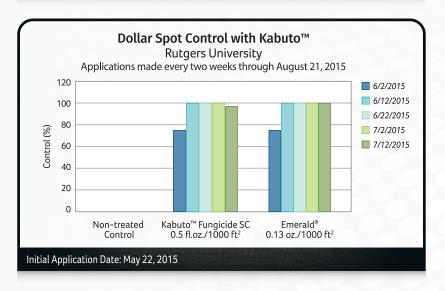
USE RATES

Dilution Table for Applications				
Use Rate (fl.oz.per 1000 sq.ft.)	Spray Volume 2 gallons per 1000 sq.ft.	Spray Volume 3 gallons per 1000 sq.ft.	Spray Volume 4 gallons per 1000 sq.ft.	
0.4	20 fl.oz./100 gal.	13.3 fl.oz/100 gal.	10 fl.oz./100 gal.	
0.5	25 fl.oz./100 gal.	16.7 fl.oz./100 gal.	12.5 fl.oz./100 gal.	

Performance Data









Isofetamid

PHYSICAL AND CHEMICAL PROPERTIES

Common name: Isofetamid

N-[1,1-dimethyl-2-(4-isopropoxy -o-tolyl)-2-oxoethyl]-3 **Chemical name:**

-methylthiophene-2-carboxamide

Chemical formula:

875915-78-9 **CAS** number:

Molecular weight: 359.48

152.7°C Melting point/range:

7.3 pH:

1.12 g/mL **Density:**

Water solubility (20°C): 5.33mg/L

Does not dissociate between pK_a at 20°C:

pH 4-10

Vapor pressure (25°C): 4.2 x 10-7 Pa

Half-lives: Aerobic soil 27-55 days

Anaerobic soil 572 days

KOC – organic-carbon sorption constant (ml q⁻¹): 489

MAMMALIAN TOXICITY

Hazard Indicator	Technical	
Acute oral LD⁵	>2000 mg/kg (rat)	
Acute dermal LD50	>2000 mg/kg (rabbit)	
Acute inhalation LC ³⁰	>5.13 mg/L	
Eye irritation	Non-irritating	
Skin irritation	Non-irritating	
Skin sensitization	Not a contact sensitizer	

ENVIRONMENTAL SAFETY

Hazard Indicator	Acute Toxicity Values	
Freshwater fish (carp)	96-hour LC50 = 100mg/L (35 mg a.i./L)	
Freshwater invertebrate (Daphnia magna)	48-hour EC50 = 25 mg/L (8.5 mg a.i./L)	
Algae (Pseudokirchneriella subcapitata)	96-hour ErC50 = 940 mg/L	
Bobwhite quail acute	LD50> 2,000 mg a.i./kg body weight (practically non-toxic)	
Sub-acute dietary bird	LD50> 5,000 ppm a.i. in diet for both quail and mallard	



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