

2015-0891  
2015-04-24

<b>GROUP</b>	<b>7</b>	<b>FUNGICIDE</b>
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## **Kabuto™400SC Fungicide**

**COMMERCIAL**

**SUSPENSION**

**READ THE LABEL BEFORE USING**

**GUARANTEE: Isofetamid 400 g/L**

Contains 1,2-benzisothiazolin-3-one at 0.017% as a preservative

**REGISTRATION NO: 31759    PEST CONTROL PRODUCTS ACT**

Net Contents: 500 ml to 200 L

Registrant  
ISK Biosciences Corporation  
7470 Auburn Road, Suite A  
Concord, Ohio  
44077  
USA  
1-877-706-4640

Distributed By:  
Engage Agro Corporation  
1030 Gordon St.  
Guelph, ON  
N1G 4X5  
Canada  
519-826-7878

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## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN**

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. 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.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing/loading, application and during clean-up and repair. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.**

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

Do not use in residential areas. Residential areas are defined as any use site where bystanders including children could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings or any other area outside of golf courses where the general public could be exposed.

Do not apply in greenhouses.

Do not apply by air.

### **PESTICIDE STORAGE:**

Store product in original container, in a secured, dry place separate from other pesticides, fertilizer, food, and feed.

## **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to oysters. 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 waters when disposing of equipment washwaters or rinsate. Do not apply when weather conditions favor drift from the treated areas. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

Toxic to birds and small wild mammals

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

### **DIRECTIONS FOR USE**

ISOFETAMID is a broad-spectrum fungicide with preventative, local systemic (or translaminar) and curative properties for foliar and soil-borne diseases. ISOFETAMID must be applied in scheduled protective programs and used in rotation with products with a different mode of action.

Under conditions favorable for disease development, the highest rate specified and shortest application interval should be used. Thorough, uniform coverage is essential for disease control.

### **MIXING**

NOTE: Slowly invert container several times to assure uniform mixture of formulation before adding this product to the spray tank.

The required amount of KABUTO 400SC Fungicide should be added slowly into the spray tank during filling. With concentrate sprays, pre-mix the required amount of KABUTO 400SC Fungicide in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations. DO NOT allow spray mixture to stand overnight or for prolonged periods. Prepare only the amount of spray required for immediate use. Spraying equipment should be thoroughly cleaned immediately after the application.

### **APPLICATION**

Apply KABUTO 400SC Fungicide in sufficient water to obtain adequate coverage of the foliage. Water volume to be used will vary with crop and amount of plant growth. Spray volume will usually range from 200 to 1000 litres per hectare for dilute sprays, and 50 to 100 litres per hectare for concentrate ground sprays.

## **INTEGRATED PEST MANAGEMENT**

KABUTO 400SC Fungicide is an excellent disease control agent when used according to label directions for control of labeled fungi. KABUTO 400SC Fungicide is recommended for use as part of an Integrated Pest Management (IPM) program, which may include the use of disease-resistant crop varieties, cultural practices, crop rotation, biological disease control agents, pest scouting and disease forecasting systems aimed at preventing economic pest damage. Practices known to reduce disease development should be followed. Consult your provincial cooperative extension service or local agricultural authorities for additional IPM strategies established in your area. KABUTO 400SC Fungicide may be used in disease forecasting programs that recommend application timing based upon environmental factors that favor disease development.

## **RESISTANCE MANAGEMENT**

For resistance management, please note that KABUTO 400SC Fungicide contains a Group 7 fungicide. Any fungal population may contain individuals naturally resistant to KABUTO 400SC Fungicide and other Group 7 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of KABUTO 400SC Fungicide or other Group 7 fungicides with different groups that control the same pathogens.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant disease resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development. Notify ISK Biosciences Corporation if reduced sensitivity of the pathogen to KABUTO 400SC Fungicide is suspected.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

- For further information and to report suspected resistance, contact Mark Gelin, ISK Biosciences Corporation, at 1-440-357-4644 Outside Canada (Long distance charges apply) or at gelinm@iskbc.com.

<b>DIRECTIONS FOR USE</b>			
<b>Crop</b>	<b>Diseases</b>	<b>Use Rate L Product Per Hectare</b>	<b>Instructions</b>
Turfgrass on golf courses and sod farms <sup>1</sup>	Dollar Spot ( <i>Sclerotinia homoeocarpa</i> )	12.7-15.9 mL/100 m <sup>2</sup>	<ul style="list-style-type: none"> <li>• Apply as a preventative treatment prior to or in the very early stage of development.</li> <li>• Apply at a 14 day interval.</li> <li>• Apply in at least 8 L of water per 100 m<sup>2</sup>.</li> <li>• Do not apply more than 8 applications per year</li> <li>• Do not apply through any type of irrigation system</li> <li>• Do not apply more than two consecutive applications of KABUTO 400SC Fungicide. Subsequent applications should be alternated with another registered fungicide with a different mode of action.</li> </ul>

<sup>1</sup>Although KABUTO 400SC Fungicide has been evaluated on several turfgrass cultivars, varieties and hybrids with no indication of phytotoxicity, neither the manufacturer nor seller have determined adequate tolerance on all turfgrass under all conditions. The user should determine if KABUTO 400SC Fungicide can be used safely for commercial use by applying the recommended rate to a small test area under conditions to be expected and monitor for adverse effects before applying KABUTO 400SC Fungicide to the targeted area.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

**DO NOT** apply by air.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

**Buffer zones:**

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:			
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:	
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Turf	2	1	1	0

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

**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 centre or doctor for treatment advice.

If swallowed, call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

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 centre or doctor for treatment advice.

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

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

In Case of Emergency: Call 1-888-484-7546.

### **TOXICOLOGICAL INFORMATION**

Treat symptomatically.

### **DISPOSAL**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

### **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.