

2016-0500
2016-02-19

GROUP	M	FUNGICIDE
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KAM'S KAPTAN 80 WDG

WATER DISPERSIBLE GRANULE FUNGICIDE

COMMERCIAL

A fungicide for the control of certain fungus diseases of fruit, vegetable, flower, turf, and ornamental crops and as a soil treatment for certain seed rots and damping-off diseases.

GUARANTEE: Captan..... 80.0%

READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO. 32196 PEST CONTROL PRODUCTS ACT

DANGER – CORROSIVE TO EYES
CAUTION – SKIN IRRITANT AND POTENTIAL SKIN SENSITIZER

WARNING: Exposure to Captan may produce long-term health effects.
To minimize exposure, follow directions outlined on this label

NET CONTENTS: 1-25 kg

Kam's Growers Supply Inc.
#2-32 Airpark Place
Guelph ON N1L 1B2

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. CORROSIVE to the eyes. **DO NOT** get in eyes. **MAY IRRITATE** the skin. **DO NOT** get on skin. Store in a cool, dry, ventilated place, away from feeds and foods. Keep away from heat, fire, and sparks. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling and before eating, drinking or smoking. Wash contaminated clothing with soap and hot water before reuse. Avoid breathing dust or spray mist. Do not contaminate food or feed. Do not contaminate any body of water.

Wear long sleeved shirt, long pants, chemical resistant gloves, goggles, and NIOSH approved quarter or half mask cartridge respirator during mixing, loading, application, clean-up and repair activities.

Workers should wear a chemical resistant rain suit during greenhouse application. Following application in greenhouses, no re-entry shall occur without an approved respirator unless it has been fully ventilated.

If re-entry into treated areas is required, workers must wear long pants, long-sleeved shirt, chemical resistant gloves, work boots and goggles.

Following application to blueberries, caneberries (raspberries and blackberries) and grapes **DO NOT** re-enter treated areas within 72 hours of application. Following application to ornamentals **DO NOT** re-enter treated areas within 4 days of application. **DO NOT** re-enter all other treated areas within 48 hours of application.

If this pest control product is to be used on a commodity that may be exported to the U. S. and you require information on acceptable residue levels in the U. S., visit CropLife Canada's web site at: www.croplife.ca.

FIRST AID INSTRUCTIONS

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 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.

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.

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

SYMPTOMS OF POISONING

Ingestion of large quantities may cause vomiting and diarrhea. Treat symptomatically.

TOXICOLOGICAL INFORMATION

There is no specific antidote if KAM'S KAPTAN 80 WDG fungicide is ingested. Check for possible mucosal damage before performing gastric lavage. If inhaled, observe for onset of pulmonary edema. Treat central nervous system effects symptomatically.

DIRECTIONS FOR USE

KAM'S KAPTAN 80 WDG fungicide is a dispersable granular fungicide for use in water as a spray for the control of certain fungus diseases of fruit, vegetables and ornamental crops, and as a soil treatment for the control of certain seed rots and damping-off diseases. Spray injury may result if captan is used with, immediately before or closely following an oil spray. **DO NOT APPLY BY AIR.**

RESISTANCE MANAGEMENT

For resistance management, KAM'S KAPTAN 80 WDG Fungicide contains a Group M fungicide. Any fungal population may

contain individuals naturally resistant to KAM'S KAPTAN 80 WDG Fungicide and other Group M 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 KAM'S KAPTAN 80 WDG Fungicide or other Group M fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant 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 Sharda Cropchem Limited if reduced sensitivity of the pathogen to KAM'S KAPTAN 80 WDG 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 site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

For further information and to report suspected resistance, contact Kam's Growers Supply at 1-877-821-1684.

COMPATIBILITY

KAM'S KAPTAN 80 WDG Fungicide can be used at recommended dosages in accordance with spray schedules or recommendations by Provincial or Experiment station personnel. Do not combine with oil and strongly alkaline materials such as hydrated lime, which reduces the fungicidal activity. Do not use this product in combination with, immediately before or closely following an oil spray, or with solvent formulations of parathion products.

MIXING

Fill the spray tank with clean water to one-fourth or one-third of final desired volume. Start agitation (proper agitation creates a rippling or rolling action on the liquid surface). Slowly add KAM'S KAPTAN 80 WDG fungicide at the recommended rate. Add water to desired final volume. Mix thoroughly and apply at once. Maintain sufficient agitation during mixing and spraying operations to ensure a uniform spray mixture.

RECOMMENDATIONS

Unless otherwise specified, rates are given in terms of KAM'S KAPTAN 80 WDG fungicide per 1000 liters of water. If expressed in kilograms per hectare, sufficient water to provide thorough coverage should be used. Except as specified, begin applications before or at first sign of disease and repeat as necessary to maintain control but observe limitations. Consult authorities for specific information as the timing, number and rate of applications needed will vary with local conditions.

FRUIT

APPLE

Scab: Use 1.2 kg in 1000 litres. Apply in a regular protective schedule from green tip up to and including second cover spray. After second cover spray, reduce rate to 0.6 kg per 1000 litres if scab is at a low level in the orchard. Do not apply within 7 days of harvest. Early season sprays may cause injury to foliage of Red Delicious, Winesap and other sensitive varieties.

Bitter Rot, Black Rot, Brooks Spot, Flyspeck, Sooty Blotch: Use 0.6-1.2 kg in 1000 litres. Consult your provincial spray calendar for recommended dosage, rate and timing of applications. Do not apply within 7 days of harvest. Early season sprays may cause injury to foliage of Red Delicious, Winesap, and other sensitive varieties.

Bulls-eye Rot (*Gloeosporium perennans*): Use 1.2 kg in 1000 litres. Apply if rainy periods occur prior to harvest. Consult your provincial spray calendar for timing of applications. Do not apply within 7 days of harvest. Early season sprays may cause injury to foliage of Red Delicious, Winesap and other sensitive varieties.

APRICOT-Brown Rot: Use 1.2-1.5 kg per 1000 litres. Apply in pink bud, bloom shuck-split, shuck-fall and pre-pink sprays. Do not apply within 2 days of harvest.

CHERRY (SOUR, SWEET)-Brown Rot, Shot Hole (Leaf Spot): Use 1.2-1.5 kg in 1000 litres. Apply in prebloom, bloom, petal fall, shuck, first, second and third cover sprays and immediately after harvest. Leaf injury may result to the Schmidt and Emperor Francis varieties of sweet cherry in post-bloom sprays. Do not apply within 2 days of harvest for sweet cherry or 5 days for sour cherry.

PEACH AND NECTARINE-Brown Rot, Scab: Use 1.2-1.5 kg in 1000 litres. Apply in late pink, full bloom, petal fall, shuck fall, and cover spray. Continue applications through harvest if conditions favor brown rot. Do not apply within 2 days of harvest.

PEAR-Scab, Sooty Blotch: Use 1.2 kg in 1000 litres. For scab, apply in the prebloom, petal fall and first cover sprays. For sooty blotch, apply in the second cover spray and 2 weeks later. Do not use on D'Anjou pears. Do not apply within 7 days of harvest.

PLUM-Black Knot, Scab, Brown Rot: Use 1.2-1.5 kg in 1000 litres. For black knot, spray in green tip, prebloom and blossom sprays. For scab, apply in the prebloom, petal fall and first cover sprays. For brown rot, apply in the prebloom, bloom, shuck and cover sprays. Do not apply within 2 days of harvest.

GRAPE-Dead Arm (current season's infections): Use 1.2 kg in 1000 litres. Apply when new shoots are 1.2 to 5 cm long and again when 10 to 15 cm long. Do not apply within 7 days of harvest.

Black Rot, Downy Mildew: Use 1.2-1.5 kg in 1000 litres. Apply just before bloom, just after bloom and in first cover. For downy mildew, an additional application 2 to 3 weeks later may be needed. Do not apply within 7 days of harvest.

RASPBERRY-Fruit Rot, Spur Blight: Use 1.2 kg in 1000 litres. Apply when blossoms first appear and repeat at intervals of 7 to 10 days until harvest. Under conditions favorable to fruit rot, continue applications throughout the harvest period. Do not apply within 2 days of harvest.

BLACKBERRY-Fruit Rot: Use 2 kg per hectare. Apply when first blossoms open and then at weekly intervals through bloom. Under conditions favorable to fruit rot, continue applications throughout the harvest period. Do not apply within 2 days of harvest.

LOGANBERRY-Cane Spot, Fruit Rot, Leaf Spot, Spur Blight: Use 1.4-2 kg per hectare. Apply when first blossoms open and then at weekly intervals through bloom. Under conditions favorable to fruit rot, continue applications throughout the harvest period. Do not apply within 2 days of harvest.

BLUEBERRY-Fruit Rot, Mummy Berry: Use 2 kg per hectare. Treat when new growth starts and then at weekly intervals through bloom. Under conditions favorable to fruit rot, continue applications throughout the harvest period. Do not apply within 2 days of harvest.

STRAWBERRY-Gray Mold Rot, Leaf Spot: Use 2.8-4.2 kg per hectare. Apply when the new growth starts in the spring, and repeat at weekly intervals. Under conditions favorable to fruit rot, continue applications throughout the harvest period. Do not apply within 2 days of harvest.

VEGETABLES

RHUBARB (in forcing sheds) - Gray Mold Rot: Use 1.4-2 kg in 1000 litres. Spray at weekly intervals. Do not apply within 2 days of harvest.

CUCUMBER, Anthracnose, Scab: Use 2-4.2 kg per hectare. Apply at the first sign of disease and repeat at intervals of 5 to 7 days. Use 2-3.1 kg per hectare on young plants, 3.1-4.2 kg per hectare on mature plants. Do not apply within 2 days of harvest.

TOMATO-Anthracnose, Early Blight, Gray Leaf Spot, Late Blight, Septoria Leaf Spot: Use 1.2-2.5 kg in 1000 litres. Apply at the first sign of infection and repeat at intervals of 7 to 10 days or as needed to maintain control. Use the higher rates on mature plants or for severe infections. Do not apply within 2 days of harvest.

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, KALE, EGGPLANT, ORNAMENTALS, PEA, PEPPER, ROSE,

RUTABAGA, TOMATO, TURNIP-Damping-off, Root Rot: Use 78-141 grams per 100 square meters. **SOIL TREATMENT:** Work into the upper 8 to 10 cm of soil before planting.

OTHER CROPS

TOBACCO (SEEDLINGS)-Pythium Damping-Off: Use 156 grams in 200 litres per 100 square meters. Apply when seedlings are dime- sized. If necessary, repeat 10 to 14 days later.

TURF (Golf Courses and sod Farms only) Brown Patch, Damping-Off, Leaf Spot, Melting-Out, Root Rot: Use 5.9 kg/ha (59.3 grams per 100 square meters). Do not apply more than 11.9 kg/ha per year. Apply before infection occurs in early spring. If necessary, repeat at intervals of 7 to 14 days throughout the summer. **Do not apply to home lawns, parks, schools, sports fields and other recreational areas.**

CARNATION-Blight, Leaf Spot: Use 1.2-1.4 kg in 1000 litres. Apply at intervals of 7 to 10 days as necessary.

CHRYSANTHEMUM-Gray-Mold Blight, Septoria Leaf Spot: Use 1.2-1.4 kg in 1000 litres. Apply at intervals of 7 to 10 days as necessary.

ROSE-Black Spot: Use 1.2-1.4 kg in 1000 litres. Apply at intervals of 7 to 10 days as necessary.

AZALEA, CARNATION, CHRYSANTHEMUM-Stem Rot of Cuttings: Use 5-9.4 grams per 10 litres. Dip cutting for 20 to 30 minutes. Drain before planting.

BEGONIA (TUBEROUS), DAHLIA, IRIS (BULBOUS), NARCISSUS, TULIP, GLADIOLUS-Damping-Off, Bulb Rots: Use 3.8-9.4 kg in 1000 litres. Before storage, dip and allow to dry.

STORAGE

Store in a cool, dry place - Protect from excessive heat.

DISPOSAL

Triple – or pressure – rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements.

For information on the 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.