

Cooperative Extension---The Pennsylvania State University

## *Plant Disease Facts*

Department of Plant Pathology  
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### SCHEFFLERA (*Brassaia*) DISEASES

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<u>DISEASE</u>	<u>SYMPTOMS</u>	<u>PATHOGEN/CAUSE</u>	<u>MANAGEMENT</u>
ALTERNARIA LEAF SPOT	Large dark brown spots form on leaves and may have a yellow halo.	<i>Alternaria panax</i>	Avoid overhead watering. Apply iprodione or mancozeb to protect leaves.
BACTERIAL LEAF SPOT	Small, tan to yellow, corky, irregularly shaped spots form on the lower surface of the leaf. Spots up to 1/4 inch in diameter turn dark brown.	<i>Xanthomonas campestris</i> pv. <i>hederae</i>	Purchase plants free from the disease. Avoid overhead watering. Check nearby English ivy ( <i>Hedera helix</i> ) for bacterial leaf spot. Remove infected plants.
COLD INJURY	Dead areas form on leaves up to several days after exposure.	Temperatures below 50° F	Do not place plants near air conditioners. Maintain temperatures above 50° F.
LEAF YELLOWING	Leaves become light green or completely yellow. Stems are spindly and weak.	Low light intensity	Provide some and no more than 16 hours of light per day at 150 ft. candles.



Alternaria leaf spot

**Active Ingredients and Trade Names of the Chemicals**

FRAC Group No.	Risk Level	Class	Active ingredient	REI Restricted Entry Interval	Trade names (EPA Reg. no.)
2	3	Dicarboximide	iprodione	12	Chipco 26GT (100-1138), Chipco 26019 (264-481), Iprodione (51036-361), Sextant (51036-361-59807)
M	1	Copper, fixed Dithiocarbamate	copper hydroxide	48	Kocide (352-656), Champion (55146-1) Dithane (707-180), FORE (707-87), Pentathlon (1818-251) Protect T/O (1001-65)
			mancozeb	24	
			manganese + zinc	24	

**Fungicides and Fungicide Resistance Management** - Certain fungicides, usually systemic fungicides, are said to be 'at risk' to the development of resistance if they are used repeatedly. See the Risk Level in the above table (1 = low risk; 3 = high risk). The Fungicide Resistance Action Committee has developed a numbering system in which chemicals with the same FRAC Group number have the same mode of action (See <http://www.frac.info/frac/index.htm>). It is recommended that chemicals at high risk be used sparingly and in rotation or mixed with chemicals with different modes of actions (different FRAC number).

NOTICE: THE USER OF THIS INFORMATION ASSUMES ALL RISKS FOR PERSONAL INJURY OR PROPERTY DAMAGE. WARNING! PESTICIDES ARE POISONOUS. READ AND FOLLOW ALL DIRECTIONS AND SAFETY PRECAUTIONS ON LABELS. HANDLE CAREFULLY AND STORE IN ORIGINAL LABELED CONTAINERS OUT OF THE REACH OF CHILDREN, PETS, AND LIVESTOCK. DISPOSE OF EMPTY CONTAINERS RIGHT AWAY, IN A SAFE MANNER AND PLACE. DO NOT CONTAMINATE FORAGE, STREAMS OR PONDS.

Where trade names are used, no discrimination is intended and no endorsement by the Cooperative Extension Service is implied.

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