

Common Fungicides used in Apple Production and their Evaluation Utilizing Four Eco-labeling Group Standards

Common Name	Trade Name	Class	Healthy Grown Toxicity*	Food Alliance Midwest *	Canada Standards	Gerber	EIQ
Fungicides:							
Ampelomyces quisqualis	AQ10	-					
Bacillus subtilis	Serenade	-					
benomyl	Benlate	benzimidazole					69.5
captan	Captan	dicarboximide					28.6
copper hydroxide	Champ formulations	copper					~33.3
copper hydroxide	Kocide 101	copper	36				33.3
copper sulfate	Copper Sulfate	copper	22				47.8
cyprodinil	Vanguard WG	pyridimine					28.1
dicloran	Botran 75 W	aromatic					35.9
dodine	Syllit 65 W	aliphatic N					34.9
fenarimol	Rubigan 1 EC	pyridimine					27.3
ferbam	Ferbam Granuflo	dithiocarbamate					~28.8
fosetyl-Al	Aliette 80 WDG	organophosphate					13.7
harpin protein	Messenger	-					
hydrogen dioxide	Oxidate	-					
kresoxim-methyl	Sovran	strobin					
maneb	Maneb formulations	dithiocarbamate	151				64.1
mancozeb	Dithane M-45	dithiocarbamate	185				62.3
mancozeb	Manzate 200 DF	dithiocarbamate	185				62.3
mancozeb	Penncozeb formulations	dithiocarbamate	185				~62.3
mefenoxam	Ridomil formulations	xylylalanine					
metiram	Polyram 80 DF	dithiocarbamate	250				55.9
myclobutanil	Nova 40 W	conazole					41.2
ocytetracycline	Mycoshield Ag Terramycin						
paraffinic oil	JMS Stylet Oil	unclassified					
potassium bicarbonate	Armicarb 100	-					
streptomycin	Agri-Mycin 17 Ag	antibiotic					18.7
sulfur	Kumulus DF	inorganic					~45.5
sulfur	Microthiol Disperss	inorganic					~45.5
sulfur	Wettable Sulfur 90 WP	inorganic					~45.5
thiabendazole	Mertect 340-F	benzimidazole					~35.5
thiram	Thiram Granuflo	dithiocarbamate					54.5
thiophanate-methyl	Topsin-M 70 WP	benzimidazole					51.5
triadimefon	Bayleton 50 DF	conazole					33.3
trifloxystrobin	Flint	strobin					33.9
triflumizole	Procure 50 WS	conazole					56.6
ziram	Ziram formulations	dithiocarbamate					87.7

* Healthy Grown standard was developed for potatoes, apple standard in progress

*Food Alliance standard revisions in progress to be completed May 2003

~ chemical ranking cites a different trade name