

VERMONT GOLF COURSE PERMIT PROGRAM  
 PRESCREENED LIST  
 September 21, 2009

	<u>Koc</u>	<u>Solubility</u> (ppm)	<u>Half-life</u> (days)	<u>Gus</u>
<u>FUNGICIDES</u>				
CHLORONEB	1,650	8	130	1.65
CHLOROTHALINIL	1,380	0.6	30	1.27
IPRODIONE	700	13.9	14	1.32
MANEB/MANCOZEB	2,000	6	70	1.30
PCNB	5,000	0.44	21	0.40
THIOPHANATE-METHYL	1,830	3.5	10	0.74
VINCLOZALIN	43,000	3	20	-0.82
Fludioxonil	12,000	1.8	14	-0.09
Pyraclostrobin	6,000	1.9	98	0.42
Trifloxystrobin	2,377	0.61	9	0.59
HYDROGEN PEROXIDE				
SODIUM PERCARBONATE				
Streptomyces lydicus				
Postassium salts of Phosphorous acid				
Bacillus licheniformis				
Sulfur	-	-	-	-
Mineral oil	9,086,000	0.01	65	-5.36
TRICHODERMA harzianum				

HERBICIDES

BENEFIN	9,000	0.1	40	0.08
DITHIOPYR	1,638	1.38	17	0.97
FENOXYPROP-ETHYL	9,490	0.8	9	0.02
ORYZALIN	600	2.5	20	1.59
PENDIMETHALIN	5,000	0.275	90	0.59
TRIFLURALIN	8,000	0.3	60	0.18
MCPA ESTER	1,000	5	25	1.4
ISOXABEN	1,500	1	34	1.25
CARFENTRAZONE-ETHYL		19	5	low**
PRODIAMINE	12,710	0.13	120	-0.22

INSECTICIDES

CHLORPYRIFOS	6,070	0.4	30	0.33
CYFLUTHRIN	1,000,000	.002	30	-2.96
LAMBDA-CYHALOTHRIN	180,000	.005	30	-1.86
DELTAMETHRIN	204,000	.0002	34	-4.12
BIFENTHRIN	237,000	.0001	95	-2.71
INDOXACARB	6,450	0.2	20	0.23
Steinernema carpocapsae				
Bacillus thuringiensis var. kurstaki				

DEFINITION

Prescreened Pesticide List: a list of pesticides which due to their relative immobility and limited persistence (as measured by parameters such as, but not restricted to solubility, KOC and half-life) are unlikely, under normal conditions and acceptable use, to leave established turf grass and enter surface and/or ground water.

CRITERIA

- 1) Koc > 300 (organic carbon partitioning coefficient)
- 2) Solubility in water < 20 ppm
- 3) GUS = Ground Water Ubiquity Score: Leaching potential is small if  $\log(\text{half life}) * (4 - \log(\text{Koc})) \leq 1.8$  or if solubility is < 1 ppm and half-life is < 1
- 4) Not commonly found in groundwater 5)\*\* based on EPA registration documents

