

Table B1. Registered products for management of soybean rust (updated: 4/8/09)

	Product					Application			
	Trade Name	Manufacturer	Chemical Group	Active Ingredient	Formulation	Rate/Acre	Volume - Ground (gpa)	Volume - Air (gpa)	
Registered products	Bravo® WeatherStik	Syngenta Crop Protection Inc	Chloronitrile	chlorothalonil	Flowable	1-2 pts (3 appl.) 1½-2¼ pts (2 appl.)	20-30 High volume spray 5-10 Low Volume spray	5-10	
	Bravo® Ultrex	Syngenta Crop Protection Inc		chlorothalonil	Dry flowable	0.9-1.4 lbs (3 appl.) 1.4-2.2 lbs (2pl.)		5-10	
	Echo® 720	Sipcam Agro USA		chlorothalonil	Flowable	1-2 pts (3 appl.) 1½-2¼ pts (2 appl.)	20-150 High volume spray 5-10 Low Volume spray	5-10	
	Echo® 90DF	Sipcam Agro USA		chlorothalonil	Dry flowable	¾-1½ lbs (3 appl.) 1¼-2 lbs (2 appl.)		5-10	
	Equus® 720 SST	Farm\$aver.com, LLC		chlorothalonil	Flowable	1-1.6 pts	20-150 High volume spray 5-10 Low Volume spray	5-10	
	Equus® DF	Farm\$aver.com, LLC		chlorothalonil	Dry flowable	1.5-2.2 lbs		5-10	
	Quadris® 2.08EC	Syngenta Crop Protection Inc	Strobilurin	azoxystrobin	Flowable	6-15.5 fl oz	Sufficient water volume for adequate coverage and canopy penetration	2 minimum	
	Headline® 2.09 EC	BASF Corporation		pyraclostrobin	Emulsifiable Concentrate	6-12 fl oz		Apply in sufficient water to ensure thorough coverage	2 minimum
	Alto® 100SL	Syngenta Crop Protection Inc	Triazole	cyproconazole	Flowable	4 fl oz	10 minimum	5 minimum	
	Laredo™ 25EC	Dow AgroSciences		myclobutanil	Emulsifiable Concentrate	4-8 fl oz	Adequate spray volume to achieve good coverage and canopy penetration (normally 15-20)	5 minimum	
	Tilt® 250EC	Syngenta Crop Protection Inc		propiconazole	Emulsifiable Concentrate	4-8 fl oz		10 minimum	2 minimum
	Bumper® 41.8EC	Makhteshim-Agan		propiconazole	Emulsifiable Concentrate	4-8 fl oz	10 minimum	5 minimum	
	Proline™ 480 SC	Bayer CropSciences		prothioconazole	Soluble Concentrate	2.5-3.0 fl oz	15 minimum	5 minimum	
	Folicur® 3.6 SC	Bayer CropScience		tebuconazole	Suspension concentrate	3-4 fl oz	10 minimum	5 minimum	
	Orius™ 3.6 SC	Makhteshim-Agan		tebuconazole	Suspension concentrate	3-4 fl oz	10 minimum	5 minimum	
	Domark® 230ME	Isagro USA		tetraconazole	Microencapsulated emulsion	4-5 fl oz	10-25	5 minimum	
	Quilt™ 1.67SC	Syngenta Crop Protection Inc		Triazole + Strobilurin	propiconazole + azoxystrobin	Emulsifiable Concentrate	14-20 fl oz	10 minimum	2 minimum
	Quadris Xtra 280 SC	Syngenta Crop Protection Inc			cyproconazole + azoxystrobin	Suspension concentrate	4-6.8 fl oz	10 minimum	2 minimum
	Stratego® 250 EC	Bayer CropScience	propiconazole + trifloxystrobin		Emulsifiable Concentrate	5.5-10 fl oz	10 minimum	2 minimum	
	Section 18	Punch™ **	DuPont		Flusilazole	Emulsifiable Concentrate	3-4 fl oz	10 minimum	5 minimum
	Topguard™ 125 SC	Cheminova		Flutriafol	Suspension concentrate	7 fl oz	10 minimum	5 minimum	

\*\* Available in 2009 as a Section 18, but will not be available in 2010.

Table B2. Trade name, chemical group, and application restrictions

Product			Restrictions				
Trade Name	Chemical Group	Active ingredient	Spray interval (days)	Max product/ A per year	REI (hours)	Preharvest Interval (PHI)	
Chlorothalonil products	Chloronitrile	chlorothalonil	14	5.4 lbs or 6 pts	12	42 days	
Quadris® 2.08EC	Strobilurin	azoxystrobin	21	31 fl oz	4	14 days	
Headline® 2.09EC		pyraclostrobin	7-21	24 fl oz	12	21 days	
Alto® 100SL	Triazole	cyproconazole	14-21	8 fl oz	12	30 days	
Punch™		flusilazole	14-21	8 fl oz	168	30 days	
Topguard™ 125 SC		flutriafol	21	14 fl oz	12	21 days	
Laredo™ 25EC		myclobutanil	14-21	16 fl oz	24	28 days	
Tilt® 250EC and Bumper® 41.8EC		propiconazole	14	12 fl oz	24	Not after R5 growth stage	
Proline™ 480 SC		prothioconazole	10-21	9 fl oz	48	21 days	
Folicur® 3.6F and Orius™ 3.6F		tebuconazole	10-21	8 fl oz	12	30 days	
Domark® 230ME		tetraconazole	in necessary, before R6	10 fl oz	12	Not after R5 growth stage	
Quilt™ 1.67SC		Triazole + strobilurin	propiconazole + azoxystrobin	14-21	40 fl oz	24	Not after R5 growth stage
Quadris Xtra 280 SC			cyproconazole + azoxystrobin	14-28	13.6 fl oz	12	30 days
Stratego® 250 EC	propiconazole + trifloxystrobin		10-21	20 fl oz	24	Not after R5 growth stage	

Table B3. Trade name, chemical group and record keeping

Product			Record keeping						
Trade Name	Chemical Group	Active Ingredient	Runoff/Leach Potential <sup>a</sup>	Oral LD50 (rats)	Dermal LD50 (rats)	Bee toxicity (µg/bee)	Signal word	FRAC Code	EPA Reg #
Bravo® WeatherStik	Chloronitrile	chlorothalonil	2/3	9,000	>2,000	>181	Danger	M	50534-188-100
Bravo® Ultrex		chlorothalonil	2/3	>5,000	<2,000	>181	Caution	M	50534-201-1000
Echo® 720		chlorothalonil	2/3	3,260	>2,020	NA	Warning	M	60063-7
Echo® 90DF		chlorothalonil	2/3	3,260	>2,020	NA	Danger	M	60063-10
Equus® 720 SST		chlorothalonil	2/3	NA	NA	NA	Warning	M	72167-24-73220
Equus® DF		chlorothalonil	2/3	NA	NA	NA	Warning	M	72167-25-73220
Quadris® 2.08EC	Strobilurin	azoxystrobin	1/3	>5,000	>4,000	>200	Caution	11	100-1098
Headline® 2.09EC		pyraclostrobin	1/3	>500	>4,000	>100	Warning	11	7969-186
Alto® 100SL	Triazole	cyproconazole	1/2	>2,000	>4,000	NA	Caution	3	100-864
Punch™		flusilazole	-/-	1,696	>2,000	NA	Caution	3	Section 18
Topguard™ 125 SC		flutriafol	-/-	NA	NA	NA	Danger	3	Section 18
Laredo™ 25EC		myclobutanil	1/2	2,800	>5,000	>362	Danger	3	62719-412
Bumper® 41.8EC		propiconazole	1/2	>2,000	>2,000	not toxic	Warning	3	66222-42
Tilt® 250EC		propiconazole	1/2	1,310	>5,000	>25	Warning	3	100-617
Proline™ 480 SC		prothioconazole	-/-	>2,000	>5,000	NA	Caution	3	264-825
Folicur® 3.6F		tebuconazole	1/2	3,776	>2,011	NA	Caution	3	264-752
Orius™ 3.6F		tebuconazole	1/2	>4,000	>5,000	NA	Caution	3	264-752-66222
Domark® 230ME		tetraconazole	-/-	>2,000	>5,000	NA	Caution	3	80289-7
Quilt™ 1.67SC	Triazole + strobilurin	propiconazole + azoxystrobin	-/-	1,750	>5,000	>25 + >200	Caution	3+11	100-1178
Quadris Xtra 280 SC		cyproconazole + azoxystrobin	-/-	>500	>5,000	NA	Caution	3+11	100-1225
Stratego® 250 EC		propiconazole + trifloxystrobin	-/-	4,757	>5,050	NA	Warning	3+11	264-779

<sup>a</sup> 1=high, 2= intermediate, 3= low. These runoff/leaching potential ratings are from the NRCS WIN-PST Pesticide Properties Database ([www.wcc.nrcs.usda.gov/pestmgt/winpst.html](http://www.wcc.nrcs.usda.gov/pestmgt/winpst.html))