

SD95481 - A NEW BROAD-SPECTRUM GRASS HERBICIDE

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Abstract. Shell Chemical (Aust) Pty Ltd have commenced the development of a new Shell compound in Australia.

SD95481 is a pre-emergence grass herbicide with activity against some broadleaved weeds. Selectivity is believed to be by placement only, and larger seeded, deeper sown crops are likely to show greater tolerance. In many crops SD95481 is technically suited for use in either pre-planting incorporated or post-planting pre-emergence treatments.

Preliminary results from trials conducted in Australia suggest that selectivity in cereals is greater with post-planting treatments. Overseas results show SD95481 to be selective in Soyabeans, Cotton, Peanuts, Sunflowers, Beans, Peas, Potatoes, Tomatoes, Tobacco and Brassica Vegetables. Marginal selectivity has been observed in Lucerne, Onions, Oilseed rape and also in cereals where phytotoxicity has been related to timing of rainfall after treatment.

Although leaching occurs on the lightest soils, SD95481 appears to be relatively insensitive to soil type and organic matter content.

Results from a trial conducted during 1984 by the Department of Agriculture of Western Australia are shown in Table 1.

Table 1. Effect of SD95481 on four grasses in wheat. Avondale 1984.

Herbicides applied immediately pre-planting on 14/6/84.

Treatment	Rate Product ha ⁻¹	Crop Rating ¹ 3/9/84	Plants m ⁻¹				
			Wheat	Brome ²	Barley ²	Rye ²	Silver ²
SD95481	0.25L	0.06	89	25	3.9	17.5	6.7
SD95481	0.5 L	0.02	90	8.3	3.6	8.6	0.6
SD95481	0.75L	1.19	86	10.3	0.8	6.1	2.5
SD95481	1.00L ⁻¹	1.63	85	6.4	1.1	0.6	0.3
Chlorsulfuron	20g L ⁻¹	0.26	80	70	13.9	32.2	31.7
Nil		2.31	80	82	36	128	49
LSD	P < 0.05		NS	15.2	6.1	20.7	12.8

¹Rating 0 = No effect. 5 = 100% death.

²Brome grass (*Bromus diandrus*), Barley grass (*Hordeum geniculatum*), Ryegrass (*Lolium rigidum*), Silvergrass (*Vulpia bromoides*).