BIOLOGY REVIEW OF AMINOCYCLOPYRACHLOR. Susan K. Rick, Ronnie G. Turner and Jeff H. Meredith, Product Development, DuPont Crop Protection, Memphis, TN 38125

Aminocyclopyrachlor is a new herbicide candidate under development by DuPont Crop Protection. Aminocyclopyrachlor has a potential fit in many markets including fine turf, vegetation management and rangeland and pasture. Field testing of aminocyclopyrachlor began in 2004 and it has been tested under the DuPont codes DPX-KJM44 and DPX-MAT28. Aminocyclopyrachlor has both foliar and residual activity on a broad spectrum of broadleaf weeds, shrubs and brush species.

Aminocyclopyrachlor is taken up by leaves, stems and roots. Effects can be seen in hours to a few days however death may require weeks or months. Initial control symptoms include bending or twisting of stems and leaves, while advanced symptoms include stem thickening, growth stunting, leaf cupping, severe necrosis and death. Tank mixtures with various sulfonylureas increases the spectrum of species controlled and will be beneficial in controlling or delaying the onset of ALS resistant species.

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