

TOPRAMEZONE: A NEW ACTIVE FOR POSTEMERGENCE WEED CONTROL IN CORN. Richard M. Porter, Paul D. Vaculin, John E. Orr, John A. Immaraju and William B. O'Neal, AMVAC Chemical Corporation, Newport Beach, CA 92660.

Topramezone is a novel 4-HPPD inhibitor herbicide for postemergence weed control in corn (*Zea mays* L.). AMVAC Chemical Corporation has licensed from BASF AG exclusive rights for this usage in North America. Topramezone is effective against the major broadleaf weed species, and also active against several grass weed species common to U.S. and Canadian corn production. This compound is formulated as a 2.8 lb ai/gal suspension concentrate (SC). Topramezone has been field tested for several years in numerous industry and university research programs. These trials have demonstrated that topramezone at rates of 0.011 to 0.016 lb ai/A, applied with recommended spray additives such as methylated seed oil and a nitrogen fertilizer source, provides excellent weed control coupled with exceptional tolerance to all types of corn. Topramezone will be used as a sequential application to preemergence soil applied treatments or in a total postemergence program in mixtures with other herbicides. Topramezone was reviewed as part of a Joint Review with the U.S. Environmental Protection Agency and the Canadian Pest Management Regulatory Agency. The agencies concluded that the use of topramezone and its end use product in accordance with the label does not pose an unacceptable risk of harm to man or the environment. The crop tolerances of topramezone and EPA registration for uses in field corn, seed corn, sweet corn and popcorn were received in August 2005. Topramezone will be marketed under the brand name Impact herbicide in the U.S. and Canada, and will be launched and available for commercial use during the 2006 corn season.