

AMINOPYRALID: GLOBAL OPPORTUNITIES FOR A NEW HERBICIDE. Robert A. Masters, John L. Troth, John J. Jachetta, Jeffery L. Jensen, Holger Tank, and Byron B. Sleugh, Dow AgroSciences, LLC, Indianapolis, IN 46268

Aminopyralid is a pyridine carboxylic acid herbicide developed for selective broadleaf weed control in rangeland, pastures, rights-of-way, non-cropland, natural areas, wheat, barley, sorghum, and oil palm and rubber plantations. Aminopyralid has very low acute and chronic toxicity (practically nontoxic) to mammals, birds, fish, and aquatic invertebrates, with no evidence of teratogenicity, mutagenicity, carcinogenicity, or adverse endocrine or reproductive effects. Aminopyralid is effective at rates between 53 and 120 g acid equivalent (ae) ha⁻¹ in rangeland and pastures with little to no injury to many temperate and tropical grasses. It will be offered as a stand alone treatment or in pre-mix combinations with 2,4-D, fluroxypyr and triclopyr. Applied as a stand-alone treatment, aminopyralid controls key weeds in the genera *Ambrosia*, *Acacia*, *Carduus*, *Centaurea*, *Mimosa*, and *Rumex*, *Cirsium*, *Acroptilon*, *Senecio* and *Solanum*. Mixtures with the herbicides mentioned, will control a variety of added broadleaf weeds, including *Daucus carota*, *Lantana camara*, *Lespedeza* sp., *Ranunculus* sp., *Senna obtusifolia*, *Sida* sp., *Solidago* sp., *Symphoricarpos occidentalis*, *Taraxacum officinale*, *Urtica* sp., *Vernonia* sp. and *Vervain* sp. Product concepts in wheat are being developed in Argentina, Australia, Europe, Central and East Asia and USA. In wheat, aminopyralid will control *Fallopia convolvulus*, *Polygonum aviculare*, *Silybum marianum*, *Chrysanthemum segetum*, and *Papaver rhoeas*. Aminopyralid plus glyphosate will be used in oil palm and rubber plantations to control key weeds including *Ageratum conyzoides*, *Asystasia intrusa*, *Hedyotis verticillata*, *Mikania cordata*, and *Paspalum conjugatum*. Aminopyralid use in oilseed rape and sugar cane are being evaluated. Registrations of aminopyralid-containing products are anticipated in more than 45 countries.