

**PRE-PLANT HERBICIDES** (*Refer to Herbicide Label for Specific Turf Species Use Listing*)<sup>1</sup>

COMMON NAME (lbs ai/acre) <sup>2</sup>	TRADE NAME EXAMPLES (rate of product/acre)	WEEDS CONTROLLED	TURFGRASS USE	COMMENTS
atrazine/simazine (1 to 2 lbs-sandy soil) (4 lbs-muck soil)	<b>Atrazine</b> Aatrex 4L (1-2 qts), 90DG (1.1-2.2 lbs), 80W (1.2-2.5 lbs); Purge  <b>Simazine</b> Princep 90DF, 4L + others	Pre-plant for many broadleaf weeds and suppression of crabgrass	Pre-plant centipede grass seeding and pre- plant St. Augustinegrass, centipede grass, & zoysiagrass sprigging/sodding	Apply to centipede grass & St. Augustine grass plus only dormant bermudagrass & zoysiagrass. Do not use on desirable cool-season grasses. Will provide good to excellent weed control with a minimum of growth retardation to newly sprigged, sodded, or plugged turf areas at rates not in excess of 1 lb ai/A. Effectiveness will be reduced as weeds mature. Two applications are allowed per year. Do not use during spring greenup. Do not apply within the root zone of ornamentals nor within 4 months of overseeding. Atrazine is a Restricted Use Pesticide. Triazine herbicides.
mesotrione (0.125 to 0.25 lb)	Tenacity 4L (4 to 8 fl.oz.)	Pre-plant crabgrass, chickweed, speedwells, + others	Ky. bluegrass, tall fescue, perennial ryegrass, centipede grass, St. Augustine grass	A postemergence (primary) herbicide with some preemergence activity. Apply at grass seeding in at least 30 GPA (280 L/ha) Activate with 0.15-inch (3.8 mm) irrigation. Do not use on bentgrass, Poa annua, kikuyugrass, zoysiagrass, seashore paspalum, and bermudagrass.
metolachlor (1.8 to 3.9 lbs)	Pennant 7.8L (2 to 4 pts)	Pre-plant yellow nutsedge, annual sedge, sprangletop, some annual grasses	Pre-plant centipede grass, St. Augustine grass, and zoysiagrass sprigging	The higher rate will be necessary for turf grown on high organic (i.e., muck) soils. For commercial St. Augustine grass sod production, do not use more than once every 6 weeks and do not apply more than 8 pts./A/yr. Tank mixing with atrazine will increase the weed control spectrum. Irrigate within 7 days after application. Acetanilide herbicide.
oxadiazon (2 to 4 lbs)	Ronstar 2G (100 to 200 lbs)  Ronstar 50W (4 to 6 lbs)  Ronstar Flo 3.17L (2.5 to 3.8 qts)	Pre-plant annual grasses, especially goosegrass	Post-planting bermudagrass and zoysiagrass sprigging	Safest preemergence herbicide on newly sprigged or high traffic areas. Apply to dry turf and irrigate immediately after application. Apply the wettable powder (W) and liquid (L) formulation only to bare ground or dormant turf. Oxadiazole (or Triazolinone) herbicide.
quinclorac (0.75 lb)	Drive 75 DF (1 lb)  Drive XLR8 1.5L (0.5 gal)	Pre-plant crabgrass, signalgrass, barnyardgrass, foxtail, broadleaf weeds such as pennywort, speedwells, dandelion, black medic, white clover, violets	Pre-plant seeding of annual bluegrass, ryegrass, bentgrass fairways, common bermuda, Kentucky bluegrass, tall fescue, zoysiagrass	Good soil moisture should be present before treatment. Creeping bentgrass, hybrid bermudagrass, & fine fescue have intermediate tolerance. Do not apply to desirable bahiagrass, centipede grass, St. Augustine grass, or dichondra. Tank mixing with N or Fe may lessen turf discoloration. Add a crop oil concentrate (2 pts/a) or methylated seed oil (1.5 pts/a) to increase performance. Not labeled for golf greens or collars. Avoid drift onto ornamentals. Quinolinecarboxylic Acid herbicide.
siduron (8 to 12 lbs)	Tupersan 50WP (16 to 24 lbs)	Pre-plant crabgrass control	Pre-seeding cool- season turfgrasses	Provides ~30 days preemergence control of crabgrass in newly seeded Ky. bluegrass or fescue (red or tall) areas. Do not use on warm-season grasses. At least ½-inch of water is needed within 3 days of application for preemergence activity. Substituted urea herbicide.