Slay®

OTHER NAMES

Agricultural product: Pursuit® (BASF), other proprietary products premixed with Pursuit Common/generic name: imazethapyr

HISTORY

Discovered by American Cyanamid in 1981 Registered on soybean in 1989, peanut in 1991 Later registered on alfalfa, clover, and leguminous vegetables

HERBICIDAL ACTIVITY

Very specific, narrowly focused mode of action

Inhibits an enzyme critical for amino acid synthesis, which is critical for plant growth **Symptoms are slow to be expressed (1 - 2 weeks)**

Tolerant plants rapidly detoxify Slay[®]. Susceptible plants cannot or slowly detoxify Slay[®]

BEHAVIOR IN PLANTS

Quickly absorbed by plant foliage (<u>rain-fast after 1 hour</u>) Slower rate of absorption by roots from soil Moves throughout the plant after absorption Drought and temperature stresses will alter the degree of absorption and translocation

BEHAVIOR IN SOILS

Significant soil residual activity (in some crops, soil applications are preferred)

• A bonus by providing residual weed control

• A liability by stunting/killing susceptible future crops

Soil pH will affect persistence

• Soil pH less than 6.5 will cause binding to soil, but Slay® can be 'released' to active state when soil is limed – can affect susceptible future crops

Will not leach (downward movement) in soil

WEED CONTROL IN FORAGE LEGUMES

Slay® is for postemergence weed control

Weed size is the most critical factor determining when to spray Slay®

• Smaller weeds are more effectively controlled than larger weeds

Forage legumes should be actively growing, at least <u>though the 2nd trifoliage stage of</u> <u>seedling forage legume growth</u>

If sprayed on established plantings, it may be necessary to mow forage, wait about 1-2 weeks, they spray

- $\circ~$ Excessive forage growth may intercept herbicide, causing poor weed control Rate: 3 6 fl. oz./A
 - Can be split between two applications, maximum of 6 fl. oz./A per year.

ADJUVANTS, ETC.

<u>Always non-ionic surfactant or use crop oil concentrate with Slay®</u>

• In addition, northern latitudes include UAN (liquid nitrogen fertilizer) or sprayable grade AMS (ammonium sulfate)

- Help with spray droplet deposition and foliar absorption of Slay®
- Refer to Slay[®] label for specific directions

CROP ROTATION/FUTURE PLANTINGS

These are bonafide restrictions – customers need to pay attention

- Plant these anytime after Slay® treatment: *pea, soybean, peanut, lima bean*
- Plant these at least 4 months after Slay® treatment: *alfalfa, clover, rye, wheat*
- Plant these at least 8¹/₂ months after Slay® treatment: *corn*
- Plant these at least 9¹/₂ months after Slay® treatment: *barley*
- Plant these at least 18 months after Slay® treatment: *oats, sorghum/milo, sunflower*
- Plant these at least 40 months after Slay® treatment: any crop not listed (*rape/canola, chicory, ryegrass*)

MISCELLANEOUS

<u>Slay® should be used only on clover and/or alfalfa.</u>

Slay® cannot be used on seed blends that include chicory, rape, or ryegrass Sprayer calibration is critical

Slay® is truly a "Thoroughbred" herbicide. At one time, Pursuit was the most widely used herbicide in the U. S. However, Slay® will not control every weed species. Refer to sample label for list of weeds controlled.