



Alite™ 27

Herbicide

Alite™ 27 Herbicide Overview

We are requesting the registration of isoxaflutole, the active ingredient in Alite 27 Herbicide, for use on LibertyLink GT27 soybeans. Since isoxaflutole's initial launch as a selective corn herbicide in 1998, the active ingredient has a proven history of outstanding weed control. In LibertyLink GT27 soybeans, isoxaflutole delivers residual control/suppression of more than 70 important grass and broadleaf weeds including many weeds presently exhibiting resistance to EPSPS inhibitor (glyphosate), PSII inhibitor (triazine), PPO inhibitor, ALS inhibitor and synthetic auxin herbicides as well as multiple site of action herbicide resistant weed biotypes.

Alite 27 Herbicide is simple and convenient to use and offers unique attributes. In LibertyLink GT27 soybeans, Alite 27 Herbicide provides producers not only with excellent soil-applied crop safety and residual weed control but also allows flexibility to fit their current farming practices. Alite 27 Herbicide's main strength is as a pre-plant burndown, pre-plant surface, pre-plant incorporated or pre-emergence application. Its broad weed control spectrum, low use rates and tank mix compatibility with registered soybean herbicides make isoxaflutole an ideal 'foundation' herbicide which can easily be adapted into Integrated Weed Management (IWM) programs. Isoxaflutole is an HPPD (Herbicide Group 27) site of action (SOA) chemistry which will be a new SOA for use in soybean weed management programs. Weed management programs in soybeans are currently under severe pressure due to increasing and wide spread presence of glyphosate-, ALS-, and PPO-inhibitor weed resistance concerns. The addition of this new SOA for use in soybeans will help manage this mounting herbicide resistant weed threat by not only controlling the weeds during the year of application but also by not allowing weeds to reproduce, thus reducing the weed seed bank in the soil. The outstanding residual weed control of Alite 27 Herbicide is in part due to the unique 'recharge' feature of the active ingredient, a feature no other active ingredient in the marketplace possesses. Following rainfall events throughout the growing season, a portion of the isoxaflutole applied earlier to the soil is solubilized and becomes available for uptake. Newly germinating weeds and emerged weeds up to two inches in height are controlled. With its low vapor pressure, Alite 27 Herbicide is non-volatile and poses less risk for off-target movement to nearby sensitive crops and non-target organisms.

As weed resistance concerns continue to grow in the USA, it is increasingly important to implement effective IWM programs. Alite 27 Herbicide will not be suggested for application as a solo product, but rather will always be recommended as the 'foundation' herbicide to be used in programs with additional "Effective Site of Action" herbicides. This will lead to development of weed management programs built on use of multiple SOA herbicides, a sound IWM principle and a practice that is critical to maintain the long-term viability of this product as well as other products used in combination with it in Integrated Weed Management programs. "

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