



TECHNICAL BULLETIN: ADVASEAL® HSM

HERBICIDAL PLASTIC FUMIGATION FILM

OVERVIEW: ADVASEAL® HSM is a plastic mulch film that releases the selective herbicide, Halosulfuron-Methyl, for pre-plant control of certain broadleaf weeds and nutsedge in selected crops. It can also be used to reduce fumigant emissions. Pre-plant ADVASEAL® HSM provides all plastic mulching benefits for crops grown.

WARNING: ADVASEAL® HSM Labels are legal documents providing directions on how to apply, store, and dispose of a pesticide product. This means using a pesticide in a manner inconsistent with its labeling is a violation of federal law.

STORAGE: ADVASEAL® HSM film rolls should always be stored in the original packaging under cool (below 120°F), dry conditions, away from direct sunlight and heat sources, in a horizontal position and on a smooth surface. To avoid physical damage, especially tears, that may impact the laying, fumigant barrier and mulching performance of ADVASEAL® HSM in the field, rolls should be transported and handled with care.

WARNING: Do not use damaged ADVASEAL® HSM film segments in combination with fumigants.

SOIL PREPARATION: For optimum results the soil must be loose and friable prior to the laying of ADVASEAL® HSM and free of stones or residuals from preceding crops in the soil. In order to obtain efficient support for the film, it should be laid on preformed beds.

The beds should be firm and compact to prevent formation of shallow soil

depressions underneath the film. Beds should also be higher in the center to allow for water to run off quickly.

The bed intended to be covered with ADVASEAL® HSM must contain sufficient moisture at field capacity.

WARNING: Do not install film over ground depressions or soil containing objects that can puncture or damage the film.

SOIL DISINFECTION: ADVASEAL® HSM reduces the size of a required buffer zone as determined by Federal and State Environmental Agencies for soil fumigants injected below the soil surface through either tractor-mounted shanks or through drip tape for soil disinfestation.

For injection applications, install ADVASEAL® HSM immediately after the fumigant is applied to the soil. For drip applications, ADVASEAL® HSM must be put in place before the application starts.

WARNING: Before using ADVASEAL® HSM in combination with fumigants consult the webpage of the U.S. EPA www.epa.gov/soil-fumigants/tarps and/or your State Environmental Agency to determine its qualification for use with a particular fumigant and the amount of buffer zone reduction available for that particular fumigant to ensure compliance with fumigation regulation.

FILM LAYING: ADVASEAL® HSM can be laid using conventional plastic mulch laying equipment; however tensions needs to be





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adjusted properly to prevent rupture of the coating layer.

To avoid wind damage, the film must be firmly held on the soil by covering, on average, a 4 inch strip at both edges (tucks) with a generous amount of soil. In areas with strong winds it is recommended to increase the tuck area.

WARNING: Do not apply excessive tension when laying **ADVASEAL® HSM** and do not lay on excessively dry or wet soil to avoid loosening and whipping.

IRRIGATION: It is recommended to use buried irrigation tubes. Placing the tubes under the soil favors the film's integrity and prevents "wiggling" of the tubes caused by the water warming up inside the tube.

Wiggling of irrigation tubes can cause abrasion of the coating and tearing of the film short-term.

WARNING: Do not place irrigation tape directly underneath or on top of **ADVASEAL® HSM**.

PLANTING HOLES: It is recommended to use sharp tools to prevent tearing of the mulch and making the smallest possible seedling holes with neat, clean edges to maximize soil coverage of the mulch.

WARNING: Do not seed or transplant crops sooner than 11 days after installation of **ADVASEAL® HSM** into the created hole, unless local conditions demonstrate safety at an earlier interval.

LIFESPAN: The integrity of **ADVASEAL® HSM** film after application on the soil depends on its thickness and the interaction of a range of physical and environmental factors present in the field, including soil moisture, temperature, sunlight and applied agrochemicals.

Registered crops grown on **ADVASEAL® HSM** can be treated post-plant with approved pest control and nutritional products when used according to label rates.

Experience shows that **ADVASEAL® HSM** keep its integrity for the length of at least one growing cycle for the registered crops, in general up to 9 months after application under regular conditions.

WARNING: Do not use **ADVASEAL® HSM** for more than one crop growing season.

Do not use strong acid or alkaline fertilizers, pesticide formulations, adjuvants and certain heavy metals containing micronutrients that can degrade plastic mulch films quickly.

DISPOSAL: **ADVASEAL® HSM** plastic film can be recycled **after harvest**, if available, or disposed in a sanitary landfill or by other procedures approved by state or local authorities.

WARNING: Film waste resulting from the storage or laying of **ADVASEAL® HSM** that cannot be used must be disposed of in a landfill for pesticide disposal or in accordance with applicable Federal, state or local procedures.

