

Product Update And Emerging Technology Amvac Chemical Company

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Impact[®] Herbicide For Corn

- ❑ Active ingredient – topramezone
- ❑ HPPD inhibitor
- ❑ 2.8 #/gal suspension
- ❑ Post-emergence application labeled for use on all corn
- ❑ Controls both grasses and broadleaf weeds
- ❑ Excellent crop safety
- ❑ Federal Label issued August, 2005



Recommended IMPACT[®] Programs

- **Conventional Corn**
 - Postemergence application at **0.75 oz/ac** following a soil applied product like Dual Magnum, others
 - Postemergence tankmix at **0.5 to 0.75 oz/ac** with ALS herbicides like Steadfast, others
- **Roundup Ready[®] Corn**
 - Postemergence tankmix at **0.5 to 0.75 oz/ac** with glyphosate (all brands)
- **Sweet Corn**
 - Similar programs as field corn



Bidrin[®] Label Changes

- AI per acre
- WPS
- Closed System



Bidrin[®] Use Under New Label

Total of 1.2 lbs ai/ac Available in Season

Growth Stage of Cotton	Bidrin Usage
Pre-square: Emergence to pinhead square	Up to 0.2 lbs ai/ac Only one application allowed Ground or aerial application allowed
Pinhead square to 1st Bloom	No Bidrin allowed
1st Bloom until 30 days before harvest	1.0 lb ai/ac season maximum 0.25 to 0.5 lb ai/ac per application Ground or aerial application allowed 14 day interval between applications 30 day PHI



Changes Related to Occupational Exposure

- Implement Engineering Controls
 - Closed Handling System – SecuraLink-U
- 6 day REI
 - Certified Applicators and workers under their supervision are exempt per WPS

SECURA LINK U™



SECURA LINK U™

- Attach SecuraLink-U to the SecuraLink Tank Adapter you have already installed on your tank. With a ¼ turn, all material will be dispensed by rotating the valve on the Tank Adapter



Closed System Implementation

- AMVAC has developed a stewardship program to distribute SECURA LINK U™ valves and SECURA LINK tank adapters to end users



Bidrin^{XP}



Bidrin® XP Position in Cotton

- Bidrin XP is a convenient Co-Pak combining the proven performance of Bidrin with Discipline® (bifenthrin), the broadest spectrum pyrethroid on the market.
- It is an excellent fit for broad-spectrum control of plant bugs, all stink bugs species, spider mites and aphids as well as the worm complex.
- It is an excellent fit as a heliothis overspray in *Bt* cotton and can also be used on conventional cotton.



Bidrin® XP

Convenience of a Co-Pak

- A convenient Co-Pak containing the active ingredients:
 - Dicrotophos (Bidrin 8E)
 - Bifenthrin (Discipline® 2E)
- A Co-Pak container is defined as the fused jug containing one gallon of dicrotophos (8 lbs ai/gal) and one gallon of bifenthrin (2 lbs ai/gal)



Bidrin[®] XP Use Directions

- Bidrin XP should be applied after first bloom in cotton
- Bidrin XP will treat between 20 and 32 acres per container
- 14 day interval required between applications of dicotophos
- Observe seasonal maximums for dicotophos and pyrethroids
- Do not apply within 30 days of harvest
- See label for additional information

Acres Per Container	32	28	24	20
Dicotophos (lb ai)	0.250	0.286	0.333	0.400
Bifenthrin (lb ai)	0.063	0.071	0.083	0.100



Bidrin[®] XP

- Broad-spectrum control of over 20 key insect pests in cotton including:
 - Plant bugs
 - Brown stink bugs
 - Green and Southern Green stink bugs
 - Cotton bollworm & tobacco budworm*
 - Spider mites
 - Aphids

*Some populations exhibit tolerance to pyrethroid insecticides



Superior Control of Stink Bugs

- Bidrin® XP provides superior control of all stink bugs.
- Bidrin XP control green, southern green and brown stinkbug species, both adults and nymphs.
- Photos
 - Top: Green stinkbug adult
 - Bottom: Brown stinkbug adult



Green stinkbug adult



Excellent Control of Plant Bugs

- Bidrin XP combines the activity of both Bidrin and Discipline to provide excellent control of plant bugs, both nymphs and adults.



- Photos
 - Top: Plant bug adult
 - Bottom: Plant bug nymph

Excellent Management Tool for Worm control in Cotton

- **Bidrin XP contains bifenthrin, a broad spectrum pyrethroid used as a tool to manage the tobacco budworm/cotton bollworm complex in cotton.**
- **It can be used as a heliothine overspray in Bt cotton or in conventional cotton.**

- **Photos**
 - Top: cotton bollworm
 - Bottom: Tobacco budworm



Bidrin[®] XP

Summary of Benefits

- ❑ Convenience of a Co-Pak
- ❑ Two modes of action for both quick knockdown and residual activity
- ❑ Broad-spectrum activity fits many important insects in mid-to-late season cotton
- ❑ Excellent tool for insecticide resistance management
- ❑ Priced to provide excellent value to end user and profit potential to reseller
- ❑ **Bidrin XP = Extra Performance + Extra Profit**



Orthene[®] Product Line

- ❑ Amvac acquires Orthene product line from Valent in January 2008
- ❑ Support for all existing formulations with emphasis on 97S
- ❑ Consultants will receive information letter in the near future

Amvac Products by Crop

<u>Cotton</u>	<u>Soybeans</u>	<u>Corn</u>
Bidrin®		Impact®
Bidrin XP™	Ambush® 2E	Ambush® 2E
Orthene®	Orthene®	Orthene®
Discipline™ 2EC		Discipline™ 2EC
Folex®		Counter® 15G
Thimet®		



THANK YOU!

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