

Exhibit 32



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND
POLLUTION PREVENTION

MEMORANDUM

Date: February 17, 2015

SUBJECT: DCPA (Dacthal): HED Response to Comments on the Residue Chemistry Requirement 860.1900 (Field Accumulation in Rotational Crops) of the Generic Data Call In (GDCI-0798701-1140).

PC Code: 078701

Decision Nos.: 496485

Petition No.: NA

Risk Assessment Type: NA

TXR No.: NA

MRID No.: NA

DP Barcodes: D423450


Registration No.: NA


Regulatory Action: Response to comments

Case No.: NA

CAS No.: 1861-32-1

40 CFR: 180.185

FROM: Danette Drew, Chemist 
Risk Assessment Branch V
Health Effects Division (HED) (7509P)

THROUGH: Michael Metzger, Branch Chief 
Risk Assessment Branch V/VII
Health Effects Division (7509P)

TO: Marquee King, Chemical Review Manager
Risk Management and Implementation Branch V
Pesticide Re-evaluation Division (7508P)

Amvac Chemical Corporation (Amvac) has submitted a response (8/11/2014; No MRID) to Guideline 860.1900 Field Accumulation in Rotational Crop data requirements from a DCPA (Dacthal) Generic Data Call-In (GDCI) notice (GDCI-0798701-1140, dated 1/31/13).

HED had previously responded to Amvac's 90-day and 12-month comments on the residue chemistry aspects of the GDCI [D. Drew, 10/23/2013, D413176, and D. Drew, 7/7/2014, D420907]. More details pertaining to the GDCI 860 guideline data requirements can be found in those documents. In this memorandum, HED is only responding to the residue chemistry justifications presented in the 8/11/2014 Amvac letter for the 860.1900 data requirement.

860.1900 Field Accumulation in Rotational Crops

Amvac cites two previously submitted limited rotational crop studies (MRID 42155504 and MRID 42298303). These studies have been reviewed by the Agency and have been determined to be scientifically acceptable (W. Smith, D211773, 10/23/95). The study results indicate that since there are measurable residues on rotated crops (residues on some crops were evident up to a 1-year plant back interval (PBI)), rotational crop tolerances are likely needed and that plant back restrictions are required on DCPA labels.

In the current submission (8/11/2014 letter), Amvac has proposed to maintain the current label PBI restriction of 8 months that is in place to prevent crop injury and intends to permit replanting of only those crops that are listed on the label for treatment and for which current tolerances exist. The following wording appears on one label, EPA Reg. No. 481-490:

Replanting crops other than those included on this label in DACTHAL W-75 treated soil within 8 months of application may result in crop injury. If replanting is required because of an early crop failure, the planting of onions, seeded cucurbits, potatoes, tomatoes, eggplants or peppers at this time may result in crop injury. However, all crops on this label may be planted following harvest of a DACTHAL W-75 treated crop.

Based on the available rotational crop data (MRIDs 42155501 and 42298303; see Appendix A for a summary), the currently established tolerances (see Appendix B), and in light of the 8 month requirement for crop injury, HED has determined that the following rotational crop restrictions are appropriate: **Rotation to a crop with an established tolerance for residues of DCPA (40 CFR 180.185) is permitted with a minimum plant back interval of 8 months; rotation to any other crop is not permitted.**

All labels for DCPA use on agricultural crops should be modified to reflect the appropriate rotational crop restrictions. The specific crops and permissible plant back interval are listed in Table 1 below. Provided that the correct label modifications are made, additional field rotational crop data are not needed and the 860.1900 data requirement will be considered fulfilled for DCPA. If rotation to crops without current tolerances for DCPA is desired, full rotational crop studies may be performed at the desired plant back intervals for those crops so that appropriate tolerance levels may be determined.

Table 1. DCPA Rotational Crop Plant Back Restrictions

ROTATIONAL CROP PLANT BACK RESTRICTIONS	
Minimum 8 Month Plant Back (allowed on the following individual crops with tolerances for DCPA)	Plant Back Not Permitted
<p>-Root and Tuber Vegetables: Celeriac, chicory, ginseng, horseradish, potato, oriental radish, radish, rutabaga, sweet potato, turnip, yam.</p> <p>-Bulb Vegetables: Chive, bulb onion, green onion, garlic.</p> <p>-Leafy Vegetables (except Brassica): Lettuce, radicchio.</p> <p>-Leafy Brassica Vegetables (Crop Group 5): All Brassica vegetables (Broccoli; broccoli, Chinese (gai lon); broccoli raab (rapini); Brussels sprouts; cabbage; cabbage, Chinese (bok choy); cabbage, Chinese (napa); cabbage, Chinese mustard(gai choy); cauliflower; cavalo broccolo; collards; kale; kohlrabi; mizuna; mustard greens; mustard spinach; rape greens).</p> <p>-Legume Vegetables: Blackeyed pea, dry bean, mung bean, snap bean, soybean.</p> <p>-Fruiting Vegetables: Eggplant, pepper, pimento, tomato.</p> <p>-Cucurbits: cantaloupe, cucumber, muskmelon, summer squash, watermelon, winter squash.</p> <p>-Berry and Small Fruit: Strawberry.</p> <p>-Cereal Grains: Field corn, popcorn, sweet corn.</p> <p>-Herbs: Basil, coriander, dill, marjoram, parsley.</p> <p>-Oilseed: Cottonseed.</p>	<p>Rotation to all other crops not specifically listed in column to the left is prohibited.</p>

Appendix A. Residues of DCPA, MTP, and TPA in/on rotational crops following a single application to soil of the 75% WP at 10.5 lb ai/A (1x to the primary crop).

Crop Grouping/ Representative Rotational Crop	MRID (Location)	Commodity	PBI ^a (days)	PTI ^b (days)	Residues Found (ppm) ^c			
					DCPA	MTP	TCP (TPA)	HCB
Root and Tuber Vegetables Carrot	42155504 (GA)	Roots	30	128	0.33 (0.33) ^d	ND ^e (ND)	0.57 (0.56)	0.0012 (0.0014)
			220	342	0.027 (0.030)	ND (ND)	0.11 0.13	ND (ND)
			365	458	0.012 (0.012)	ND (ND)	ND ND	0.0005 (0.0006)
	42298303 (LA)	Roots	29	112	1.03 (0.87, 0.96)	ND (0.011)	0.13 (0.15)	0.0015 (0.0016)
			103	242	ND (ND)	ND (ND)	0.31 (0.26)	ND (ND)
			355	449	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Radish	42155504 (GA)	Roots	30	59	0.24 (0.25)	0.020 (0.021)	0.054 (0.052)	ND ND
			220	248	ND (ND)	ND (ND)	ND (ND)	ND ND
			365	414	ND (ND)	ND (ND)	ND (ND)	ND 0.0006
Turnip	42298303 (LA)	Roots	29	89	0.041 (0.045)	ND (ND)	ND (ND)	ND (ND)
			90	130	0.042 (0.045)	ND (ND)	0.13 (0.14)	ND (ND)
			355	428	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Leaves of Root and Tuber Vegetables Carrot	42155504 (GA)	Leaves	30	128	0.25 (0.25)	0.014 (0.019)	2.30 (2.13)	0.0009 (0.0008)
			220	342	0.014 (ND)	ND (ND)	ND (ND)	ND (ND)
			365	458	0.012 (0.013)	ND (ND)	ND (ND)	ND (0.0006)
	42298303 (LA)	Leaves	29	112	0.17 (0.19)	ND (ND)	0.15 (0.15)	0.0005 (0.0005)
			103	204	0.012 (ND)	ND (ND)	0.090 (0.11)	ND (ND)
			355	449	ND (ND)	ND (ND)	ND (ND)	ND (ND, 0.0008, 0.0006)

Crop Grouping/ Representative Rotational Crop	MRID (Location)	Commodity	PBI ^a (days)	PTI ^b (days)	Residues Found (ppm) ^c			
					DCPA	MTP	TCP (TPA)	HCB
Radish	42155504 (GA)	Leaves	30	59	0.67 (0.74)	0.13 (0.13)	0.28 (0.27)	ND (ND)
			220	248	ND (ND)	ND (ND)	ND (ND)	ND (ND)
			365	414	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Turnip	42298303 (LA)	Leaves	29	89	0.070 (0.071)	ND (ND)	0.030 (0.026)	ND (ND)
			90	130	0.020 (0.018)	ND (ND)	0.16 (0.10)	0.0007 (ND)
			355	428	ND (ND)	ND (ND)	0.013 (ND)	ND (ND)
Leafy Vegetables (Except Brassica) Lettuce	42155504 (GA)	Leaves	30	80	0.53 (0.47)	0.47 (0.48)	1.60 (1.73)	ND (ND)
			220	380	ND (ND)	ND (ND)	ND (ND)	ND (ND)
			365	437	ND (ND)	ND (ND)	ND (ND)	ND (ND)
	42298303 (LA)	Leaves	29	81	1.32 (1.28)	0.058 (0.057)	0.038 (0.047)	0.0005 (0.0005)
			103	162	0.021 (0.025)	ND	0.65	ND (ND)
			355	396	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Brassica Leafy Vegetables Mustard	42155504 (GA)	Leaves	30	73	0.19 (0.21)	0.18 (0.18)	0.38 (0.34)	ND (ND)
			220	248	ND (ND)	ND (ND)	ND (ND)	ND (ND)
			365	414	ND (ND)	ND (ND)	ND (ND)	ND (ND)
	42298303 (LA)	Leaves	29	80	0.17 (0.17)	0.012 (0.014)	0.027 (0.027)	ND (ND)
			103	141	0.013 (0.014)	ND (ND)	0.080 (0.067)	ND (ND)
			355	410	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Cereal Grains Field Corn	42155504 (GA)	Grain	30	152	ND (ND)	ND (ND)	ND (ND)	ND (ND)
			91	205	ND (ND)	ND (ND)	ND 0.010	ND (ND)
			365	512	ND (ND)	ND (ND)	ND (ND)	ND (ND)
			Grain	29	167	ND	ND	ND

Crop Grouping/ Representative Rotational Crop	MRID (Location)	Commodity	PBI ^a (days)	PTI ^b (days)	Residues Found (ppm) ^c			
					DCPA	MTP	TCP (TPA)	HCB
	42298303 (LA)				(ND)	(ND)	(ND)	(ND)
			90	201	ND (ND)	ND (ND)	ND (0.011)	ND (ND)
			374	533	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Oats	42155504 (GA)	Grain	213	437	ND (ND)	ND (ND)	ND (ND)	ND (ND)
	42298303 (LA)	Grain	375	473	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Sorghum	42155504 (GA)	Grain	91	192	ND (ND)	ND (ND)	0.012 (0.014)	ND (ND)
			365	510	ND (ND)	ND (ND)	ND (ND)	ND (ND)
	42298303 (LA)	Grain	103	201	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Forage, Fodder, and Straw of Cereal Grains Field Corn	42155504 (GA)	Fodder	30	152	ND (ND)	ND (ND)	ND (ND)	0.0006 (0.0009)
			91	205	ND (ND)	ND (ND)	0.033 (0.035)	ND (ND)
			365	512	ND (ND)	ND (0.010)	ND (ND)	ND (ND)
		Silage	30	128	ND (ND)	ND (ND)	0.10 (0.10)	ND (ND)
			365	463	ND (ND)	ND (ND)	0.017 (ND)	ND (ND)
			42298303 (LA)	Fodder	29	167	ND (ND)	ND (ND)
	90	201	ND (ND)		0.010 (0.010)	0.11 (0.094)	0.0008 (0.0006)	
	374	564	ND (ND)		ND (ND)	ND (ND)	ND (ND)	
		Silage	29	116	ND (ND)	ND (ND)	0.046 (0.044)	ND (ND)
			90	167	ND (ND)	ND (ND)	0.11 (0.10)	ND (ND)
			374	481	ND (ND)	ND (0.012)	ND (ND)	ND (ND)
	Oats	42155504 (GA)	Forage	213	364	ND (ND)	0.015 (0.020)	ND (ND)
Straw			213	437	ND (ND)	ND (ND)	ND (ND)	ND (ND)
42298303 (LA)		Forage	29	74	0.095 (0.095)	0.010 (ND)	0.43 (0.39)	ND (ND)

Crop Grouping/ Representative Rotational Crop	MRID (Location)	Commodity	PBI ^a (days)	PTI ^b (days)	Residues Found (ppm) ^c			
					DCPA	MTP	TCP (TPA)	HCB
		Straw	375	410	ND (ND)	ND (ND)	0.079 (ND, ND, ND)	ND (ND)
			29	106	0.18 (0.16)	0.015 (0.010)	1.20 (0.82)	ND (ND)
			375	473	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Sorghum	42155504 (GA)	Fodder	91	192	ND (ND)	ND (ND)	0.14 (0.16)	ND (ND)
			365	510	ND (ND)	ND (ND)	ND (ND)	ND (ND)
	42289303 (LA)	Fodder	103	201	ND (ND)	ND (ND)	0.036 (0.046)	ND (ND)

^a PBI=plant back interval.

^b PTI=post treatment interval.

^c ND=below the limit of detection (<0.0005 ppm for HCB; <0.01 ppm for each DCPA, MTP, and TPA).

^d Numbers listed parenthetically represent duplicate extraction and analysis of a single field sample.

^e DCPA, MTP, and TCP are the only residues of concern. HCB is not a residue of concern.

Appendix B

ELECTRONIC CODE OF FEDERAL REGULATIONS

e-CFR Data is current as of January 28, 2015

Title 40 → Chapter I → Subchapter E → Part 180 → Subpart C → §180.185

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Title 40: Protection of Environment

PART 180—TOLERANCES AND EXEMPTIONS FOR PESTICIDE CHEMICAL RESIDUES IN FOOD

Subpart C—Specific Tolerances

§180.185 DCPA; tolerances for residues.

(a) *General.* Tolerances for the combined residues of the herbicide dimethyl tetrachloroterephthalate (DCPA) and its metabolites monomethyltetrachloroterephthalate (MTP) and tetrachloroterephthalic acid (TCP) (calculated as dimethyl tetrachloroterephthalate) are established in or on the following food commodities:

Commodity	Parts per million
Cantaloupe	1.0
Garlic	1.0
Ginseng	2.0
Horseradish	2.0
Muskmelon	1.0
Onion, bulb	1.0
Onion, green	1.0
Strawberry	2.0
Tomato	1.0
Vegetable, brassica, leafy, group 5	5.0
Watermelon	1.0

(b) *Section 18 emergency exemptions.* [Reserved]

(c) *Tolerances with regional registrations.* Tolerances with regional registration, as defined in §180.1(l), are established for the combined inadvertent residues of the herbicide dimethyl tetrachloroterephthalate (DCPA) and its metabolites monomethyl tetrachloroterephthalate acid (MTP) and tetrachlorophthalic acid (TCP) (calculated as DCPA) in or on the following food commodities:

Commodity	Parts per million
Radish, roots	2.0
Radish, tops	15.0

(d) *Indirect or inadvertent residues.* Tolerances are established for the combined indirect or inadvertent residues of the herbicide dimethyl tetrachloroterephthalate (DCPA) and its metabolites monomethyl tetrachloroterephthalate acid (MTP) and tetrachlorophthalic acid (TCP) (calculated as DCPA) in or on the following food commodities:

Commodity	Parts per million
Basil, dried leaves	20.0
Basil, fresh leaves	5.0
Bean, dry	2.0
Bean, mung, seed	2.0
Bean, snap, succulent	2.0
Celeriac	2.0
Chicory, roots	2.0
Chicory, tops	5.0
Chive	5.0
Coriander, leaves	5.0
Corn, field, forage	0.4
Corn, field, grain	0.05
Corn, field, stover	0.4
Corn, pop, forage	0.4
Corn, pop, grain	0.05
Corn, pop, stover	0.4
Corn, sweet, forage	0.4
Corn, sweet, kernel plus cob with husks removed	0.05
Corn, sweet, stover	0.4
Cotton, undelinted seed	0.2
Cucumber	1.0
Dill	5.0
Eggplant	1.0
Lettuce	2.0
Marjoram	5.0
Parsley, dried leaves	20.0

Parsley, leaves	5.0
Pea, blackeyed, seed	2.0
Pepper	2.0
Pimento	2.0
Potato	2.0
Radicchio	5.0
Radish, oriental, roots	2.0
Radish, oriental, tops	2.0
Rutabaga	2.0
Soybean	2.0
Squash, summer	1.0
Squash, winter	1.0
Sweet potato	2.0
Turnip, roots	2.0
Turnip, tops	5.0
Yam, true, tuber	2.0

[72 FR 52018, Sept. 12, 2007, as amended at 73 FR 53737, Sept. 17, 2008; 73 FR 80302, Dec. 31, 2008; 74 FR 14744, Apr. 1, 2009]