

Evaluation Report for Category B, Subcategory 5.0 Application

Application Numbers: 2008-3620
Application: New MRL for previously assessed TGAI
Product: Banvel Dicamba Technical Herbicide
Registration Number: 19290
Active ingredient (a.i.): Dicamba
PMRA Document Number: 1878432

Purpose of Application

The purpose of this application was to register an import MRL for dicamba in/on soybeans.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessment

Residue data for dicamba in soybean were submitted to support the establishment of a maximum residue limit (MRL) on soybean. In addition, a processing study in treated soybean was also reviewed to determine the potential for concentration of residues of dicamba in processed commodities.

Based on the maximum residues observed in soybean treated according to label directions, a maximum residue limit (MRL) to cover residues of dicamba and the metabolites 5-OH dicamba and DCSPA at 10 ppm in/on crops and processed commodities will be established as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under recommended MRLs for the raw agricultural commodity (RAC).

Table 1 Summary of field trial and processing data used to establish maximum residues limits (MRLs)

Commodity	Application method/ total application rate (g a.e./ha)	PHI (days)	Residues (ppm)		Experimental processing factor	Currently established MRL	Recommended MRL
			Min	Max			
Dry soybean seed	Single application to the soil surface prior to planting/0.56	130-175	<0.06	<0.06	0.07x (refined oil)	None	10 ppm
	One application to the soil surface prior to planting followed by another application 6-8 days prior to harvest/2.8	6-8	0.07	8.8			

Following the review of all available data, an MRL of 10 ppm for dry soybean seed is recommended to cover residues of dicamba and the metabolites DCSA and 5-OH dicamba. Residues of dicamba and the metabolites DCSA and 5-OH dicamba at the recommended MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

An environmental assessment was not required for this application

Value Assessment

A value assessment was not required for this application.

Conclusion

The PMRA conducted an evaluation of the subject application and recommended an MRL of 10 ppm for dry soybean seed to cover residues of dicamba and the metabolites DCSA and 5-OH dicamba.

References

PMRA Document Number: 1640649

Reference: 1982, Foliar absorption, metabolism and translocation of dicamba by soybeans at early podfill and late senescent stages, Data Numbering Code: 6.3

PMRA Document Number: 1640652

Reference: 1994, Determination of dicamba dichlorosalicylic acid and 5-hydroxy dicamba residues in asparagus and soybeans (GC), Data Numbering Code: 7.2.1, 7.2.2

PMRA Document Number: 1640653

Reference: 1999, Validation of Sandoz analytical method no. AM-0691B-0297-4 "Determination of dicamba and 5-hydroxy dicamba residues in barley, corn, cotton, cotton processed fractions, pasture grass, peanut, sorgham, soybean, sugar cane, tomato, tomato processed fractions, pasture grass, peanut, sorgham, soybean, sugar cane, tomato, tomato processed fractions. Data Numbering Code: 7.2.1, 7.2.2

PMRA Document Number: 1640654

Reference: 1995, Confirmatory method trial for the residue method, AM-0941-1094-0 "Determination of dicamba, dichlorosalicylic acid and 5-hydroxy dicamba residues in asparagus and soybeans (GC)", Data Numbering Code: 7.2.3, 7.2.5

PMRA Document Number: 1640657

Reference: 1995, Dicamba residue study on soybean grain and soybean processed fractions, Data Numbering Code: 7.3, 7.4.5

PMRA Document Number: 1640667

Reference: 1996, Crop residue and residue decline study with dicamba formulation on soybean, Data Numbering Code: 7.4.1, 7.4.2, 7.4.6

PMRA Document Number: 1640670

Reference: 1995, Crop residue study with dicamba formulations on soybeans, Data Numbering Code: 7.4.1, 7.4.6

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