

Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2015-6436
Application: Changes to Product Labels - New Site or Host
Product: Select Emulsifiable Concentrate Postemergence Herbicide
Registration Number: 22625
Active ingredient (a.i.): Clethodim
PMRA Document Number: 2709111

Purpose of Application

The purpose of this submission was to expand the use pattern of the end-use product Select Emulsifiable Concentrate Postemergence Herbicide to include application to the crops *Brassica carinata*, pigeon peas and additional dry beans. This product is to be applied in a tank-mix with Amigo Adjuvant (Reg. No. 22644).

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

The addition of *Brassica carinata*, pigeon peas and additional varieties of dry common beans to the label of Select Emulsifiable Concentrate Postemergence Herbicide is not expected to result in potential occupational or bystander exposure over the registered uses of clethodim. No health risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

No residue data for clethodim were submitted to support the addition of the crops *Brassica carinata*, pigeon peas and additional dry beans on the Select Emulsifiable Concentrate Postemergence Herbicide label. Previously reviewed residue data from field trials conducted in/on canola seed, mustard seed, dry peas and lentils were reassessed in the framework of this petition.

Maximum Residue Limits

The recommendation for a maximum residue limit (MRL) for clethodim on pigeon peas was based upon previously reviewed field trial data on dry peas and lentils and their currently established MRLs. MRLs to cover residues of clethodim and its metabolites containing the 2-cyclohex-1-enone moiety, expressed as clethodim, in/on crops and processed commodities are proposed as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the proposed MRLs for the raw agricultural commodities (RACs).

Table 1 Summary of Field Trial and Processing Data Used to Support Maximum Residue Limit (MRL).

Commodity	Appl. Method/ Total Appl. Rate	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL	Recommended MRL
			LAFT	HAFT			
Dry peas	Foliar appl. 90 g ai/ha	37-75	0.05	1.10	Not applicable	0.5 ppm	Crop Subgroup 6C: 3.5 ppm
Lentils	Foliar appl. 90 g ai/ha	58-91	<0.02	0.26	Not applicable	0.5 ppm	

LAFT = Lowest Average Field Trial; HAFT = Highest Average Field Trial

Following the review of all available data, an MRL as proposed in Table 1 is recommended to cover residues of clethodim. Residues in Crop Subgroup 6C (Dried shelled pea and bean, except soybean) at the proposed MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

No MRL is required for *Brassica carinata* as it is not considered a food item.

Environmental Assessment

The application rates for crops *Brassica carinata*, pigeon peas and additional dry beans are equivalent to the registered rates of the product. No additional environmental risk is expected from the use of this product provided that all label instructions are followed. Therefore, additional environmental data were not required to support the use of Select Emulsifiable Concentrate Postemergence Herbicide on these crops.

Value Assessment

The information provided, including a scientific rationale based upon mode of action, similarity to presently registered uses in Canada, and uses registered abroad as described in production guides and weed control publications, supports the expansion of the dry bean use to include all members of Crop Subgroup 6C and *Brassica carinata*.

[Note: Crop Subgroup 6C presently includes Bean (*Lupinus* spp.) (includes grain lupin, sweet lupin, white lupin and white sweet lupin); Bean (*Phaseolus* spp.) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); Bean (*Vigna* spp.) (includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); Broad bean (fava bean) (*Vicia faba*); Chickpea (garbanzo bean) (*Cicer arietinum*); Guar (*Cyamopsis tetragonoloba*); Lablab bean (hyacinth bean) (*Lablab purpureus*); Lentil (*Lens esculenta*); Pea (*Pisum* spp.) (includes field pea); Pigeon pea (*Cajanus cajan*).]

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information submitted, and has found the information sufficient to support the addition of the crops *Brassica carinata*, pigeon peas and additional dry beans to the Select Emulsifiable Concentrate Postemergence Herbicide label.

References

PMRA Document Number	Reference
2585177	2015, Use Description/Scenario (Application and Post Application) for Select Emulsifiable Concentrate Postemergence Herbicide, Reg. No. 22625 - Addition of <i>Brassica carinata</i> , additional dry beans and pigeon pea, DACO 5.0
2589290	2015, Value Assessment of Centurion Herbicide (clethodim) for post-emergence grass weed control in <i>Brassica carinata</i> and listed dry bean and pea crops. DACO: 10.2, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3, 10.2.4, 10.3, 10.3.2, 10.5.1, 10.5.2

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