Health Canada Santé Canada

Evaluation Report for Category B Subcategory 5.0 Application

Application Number: 2009-0584
Application: New MRL for previously assessed TGAI
Product: Fenoxaprop-p-ethyl Technical Herbicide
Registration Number: 19204
Active ingredients (a.i.): Fenoxaprop-p-ethyl (isomer) and safener isoxadifen-ethyl
PMRA Document Number : 1943588

Purpose of Application

The purpose of this application was to establish maximum residue limits (MRLs) to cover residues of the active ingredient fenoxaprop-p-ethyl and the safener isoxadifen-ethyl in/on imported rice.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessment

Residue data for fenoxaprop-p-ethyl and the safener isoxadifen-ethyl in rice were submitted to support the establishment of MRLs in/on imported rice. In addition, processing studies in treated rice were also assessed to determine the potential for the concentration of residues in processed commodities.

Based on the maximum residues observed in rice treated at exaggerated rates according to label directions from the exporting country, MRLs to cover residues of fenoxaprop-p-ethyl and combined residues of isoxadifen-ethyl and the metabolite AE C637375 will be established as shown in Tables 1 and 2. Residues in processed commodities not listed in Tables 1 and 2 are covered under established MRLs for the raw agricultural commodity.

Residues on rice commodities at the established MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

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Table 1 Summary of field trial and processing data used to establish maximum residue limits (MRLs) for fenoxaprop-p-ethyl

Commodity	Application method/ Total application rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental processing factor	Currently established MRL	Recommended MRL
			Min	Max			
Rice grain	Aerial and foliar broadcast applications/ 280-670	57-80	All <0.05 (<LOQ)		No concentration is expected in edible rice processed fractions	none	0.05 ppm

Table 2 Summary of field trial and processing data used to establish maximum residue limits (MRLs) for isoxadifen-ethyl

Commodity	Application method/ Total application rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental processing factor	Currently established MRL	Recommended MRL
			Min	Max			
Rice grain	Foliar application/ 160	65	<0.04	<0.06	1.4× in polished rice; 0.9× in rice bran	none	0.1 ppm

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

A value assessment was not required for this application.

Conclusions

Following the review of all available information, MRLs of 0.05 ppm to cover residues of the active ingredient fenoxapropop-p-ethyl and 0.1 ppm to cover combined residues of the safener isoxadifen-ethyl and the metabolite AE C637375 are recommended in/on imported rice.

References

PMRA Document Number: 1721225
Reference: 2007, Hoe 046360-chlorphenyl-U-^{14}C, metabolism and kinetics in rice plants (*Oryza sativa*) under field conditions, Data Numbering Code: 6.3

PMRA Document Number: 1721226
Reference: 1999, Metabolism of (U-^{14}C-phenyl)-AE F122006 in rice grown under greenhouse conditions, Data Numbering Code: 6.3

PMRA Document Number: 1721228
Reference: 1998, Summary and evaluation of residue data of AE F122006 for the use on rice, Data Numbering Code: 7.1

PMRA Document Number: 1721235
Reference: 1987, Determination in rice grain and rice straw of fenoxaprop-ethyl [Hoe-033171: ethyl-2-(4-(6-chloro-2-benzoxazolyloxy) phenoxy) propanoate] and its metabolites [Hoe-053022: 2-(4-(6-chloro-2-benzoxazolyloxy) phenoxy propanoic acid and Hoe-054014: 6-chloro-2,3-dihydronezoxazol-2-one] in rice grain and rice straw, Data Numbering Code: 7.4.1

PMRA Document Number: 1721236
Reference: 1988, Determination in rice grain of fenoxaprop-ethyl [Hoe-033171): ethyl-2-(4-(6-chloro-2-benzoxazolyloxy) phenoxy) propanoate] and its metabolites [Hoe-053022: 2-(4-(6-chloro-2-benzoxazolyloxy) phenoxy propanoic acid and Hoe-054014: 6-chloro-2,3-dihydronezoxazol-2-one] in rice grain, Data Numbering Code: 7.4.1

PMRA Document Number: 1721237
Reference: 1998, AE F122006 derived residues in rice (grain and straw) following two applications of AE R122006 EC at 80 g safener/ha - USA 1996, Data Numbering Code: 7.4.1

PMRA Document Number: 1721238
Reference: 1998, AE F122006 derived residues in rice (grain and straw) following two applications of AE R122006 EC at 80 g safener/ha - USA 1997, Data Numbering Code: 7.4.1

PMRA Document Number: 1721239
Reference: 2003, AE F122006: Magnitude of residues in/on rice processing fractions resulting from foliar applications of Ricestar Blank EC formulation under 5× maximum proposed label specifications (2002), Data Numbering Code: 7.4.5

PMRA Document Number: 1786957
Reference: 2009, Waiver rationale for rice processing study with fenoxaprop-p-ethyl, Data Numbering Code: 7.4.5

PMRA Document Number: 1786958
Reference: 1983, Field residue trial for HOE 033171 OH EC10 A706 applied to rice at 0.225 kg ai/ha in Louisiana, Data Numbering Code: 7.4.5

PMRA Document Number: 1786959
Reference: 1983, Field residue trial for HOE 033171 OH EC10 A706 applied to rice at 0.45 kg ai/ha in Louisiana, Data Numbering Code: 7.4.5

PMRA Document Number: 1786961
Reference: 1984, Field residue trial for HOE 033171 OH EC10 A706 applied to rice at 0.45 kg ai/ha in Texas, Data Numbering Code: 7.4.5

PMRA Document Number: 1786962
Reference: 1984, Field residue trial for HOE 033171 OH EC10 A706 applied to rice at 0.225 kg ai/ha in Mississipi, Data Numbering Code: 7.4.5

PMRA Document Number: 1786963
Reference: 1984, Field residue trial for HOE 033171 OH EC10 A706 applied to rice at 0.45 kg ai/ha in Mississipi, Data Numbering Code: 7.4.5

PMRA Document Number: 1786964
Reference: 1984, Field residue trial for HOE 033171 OH EC10 A706 applied to rice at 0.45 kg ai/ha in Missouri, Data Numbering Code: 7.4.5

PMRA Document Number: 1786965
Reference: 1984, Field residue trial for HOE 033171 OH EC10 A706 applied to rice at 0.225 kg ai/ha in Texas, Data Numbering Code: 7.4.5

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