

Evaluation Report for Category B, Subcategory 1.1 and 1.3 Application

Application Number: 2009-1377

Application: TGAI Prod Chemistry – New Source (site) and Changes to

Specifications

Product: Thifensulfuron Methyl Technical Herbicide

Registration Number: 21060

Active ingredients (a.i.): This ensul furon-methyl (MMM)

PMRA Document Number: 1872656

Purpose of Application

The purpose of this application was to add a new manufacturing site and to amend the specifications of Thifensulfuron Methyl Technical Herbicide which currently has full registration.

Chemistry Assessment

Common Name: Thifensulfuron-methyl

Chemical Name: Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-

yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate

Thifensulfuron Methyl Technical Herbicide has the following properties:

Property	Result	
Colour and physical state	Off-white sol	id
Nominal concentration	98.0%	
Odour	Odourless	
Specific gravity	1.580	
Vapour pressure at 25°C	1.7 x 10 ⁻⁵ mPa	
pH	4.09 (54.1 mg/L solution)	
Solubility in water at 25°C	<u>pH</u> 5	Solubility (mg/L)
	5	223
	7	2240
	9	8830
n-Octanol/water partition	<u>pH</u> 5	<u>log Kow</u>
coefficient (K _{ow})	5	1.06
	7	0.02
	9	0.0079



The chemistry requirements for Thifensulfuron Methyl Technical Herbicide have been completed.

Health Assessments

Based on the chemistry review, the changes in specifications are not expected to cause impurities of human health or environmental concerns. The toxicity profile is not expected to be significantly different and no toxicological data were required.

No new residue data for thifensulfuron-methyl were submitted in support of this registration to amend the specifications of Thifensulfuron Methyl Technical Herbicide and add a new manufacturing site. A review of the proposed label and specification forms was conducted in the framework of this application. As this technical active ingredient will be used to formulate registered end-use products within the existing use pattern, from a food residue exposure point of view, no changes in the magnitude of the residues in food and feed crops are expected and therefore, no increase in dietary exposure is anticipated.

Environmental and Value Assessment

Environmental and value assessments were not necessary for this application.

Conclusion

The PMRA has conducted a review of the available information for this application and has determined that the requested changes are acceptable.

References

Studies/Information Provided by Applicant/Registrant		
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	Produced at the DuPont [CBI Removed] Manufacturing Facility, DACO: 2.12.1,	
	2.13.3 CBI	
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	Produced at the DuPont [CBI Removed] Manufacturing Facility, DACO: 2.12.1,	
	2.13.3 CBI	
1745306	2009, Batch Analysis of Thifensulfuron Methyl (DPX-M6316) Technical	
	Produced at the DuPont [CBI Removed] Manufacturing Facility (Confidential	
	Attachment), DACO: 2.12.1, 2.13.3 CBI	
1745307	2009, Batch Analysis of Thifensulfuron Methyl (DPX-M6316) Technical	
	Produced at the DuPont [CBI Removed] Manufacturing Facility (Confidential	
	Attachment), DACO: 2.12.1, 2.13.3 CBI	
1745308	2003, Thifensulfuron Methyl (DPX-M6316): Analysis and Certification of	
	Product Ingredients for Technical Grade Material Produced at the DuPont [CBI	
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	2.13.3 CBI	

1745309	2003, Thifensulfuron Methyl (DPX-M6316): Analysis and Certification of Product Ingredients for Technical Grade Material Produced at the DuPont [CBI
1745310	Removed] Manufacturing Facility, DACO: 2.12.1, 2.13.3 CBI 2009, Technical Grade Thifensulfuron Methyl (DPX-M6316) Manufacturing Description and Formation of Impurities (Confidential Attachment), DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
1745311	2009, Technical Grade Thifensulfuron Methyl (DPX-M6316) Manufacturing Description and Formation of Impurities, DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
1745312	2009, Determination of Thifensulfuron Methyl (DPX-M6316) in Technical Grade Thifensulfuron Methyl, DACO: 2.13.1, 2.13.2 CBI
1745313	2009, Validation of the Analytical Method for the Determination of Thifensulfuron Methyl (DPX-M6316) in Technical Grade Thifensulfuron Methyl (Confidential Attachment), DACO: 2.13.1, 2.13.2 CBI
1745314	2009, Validation of the Analytical Method for the Determination of Thifensulfuron Methyl (DPX-M6316) in Technical Grade Thifensulfuron Methyl (Confidential Attachment), DACO: 2.13.1, 2.13.2 CBI
1745315	2009, Description and Validation of the Analytical Methods for Determination of Impurities in Technical Grade Thifensulfuron Methyl (DPX-M6316) Confidential Attachment, DACO: 2.13.1, 2.13.2 CBI
1745319	2009, Description and Validation of the Analytical Methods for Determination of Impurities in Technical Grade Thifensulfuron Methyl (DPX-M6316), DACO: 2.13.1, 2.13.2 CBI
1745320	2007, Toxicological Significance of [CBI Removed] as a Trace Impurity in Thifensulfuron Methyl, DACO: 2.13.4 CBI
1745321	2003, Thifensulfuron Methyl (DPX-M6316): Analysis of Technical Material Used in Toxicology Testing (Confidential Attachment), DACO: 2.16 CBI
1745322	2003, Thifensulfuron Methyl (DPX-M6316): Analysis of Technical Material Used in Toxicology Testing, DACO: 2.16 CBI
1745324	2009, Justification for Thifensulfuron Methyl (DPX-M6316) Certified Limits, DACO: 2.12.1 CBI
1856151	2010, DuPont Response to PMRA Clarification Notice (Part 2 - Chemistry), DACO: 2.0 CBI
1856152	2010, DuPont Response to PMRA Clarification Notice (Part 2 - Chemistry) - ATTACHMENT 1, DACO: 2.0 CBI
1856153	2010, DuPont Response to PMRA Clarification Notice (Part 2 - Chemistry) - ATTACHMENT 2, DACO: 2.0 CBI
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