

Evaluation Report for Category B, Subcategory 2.1, 2.3 and 2.5 Application n

Application Number: 2010-3221
Application: New product chemistry – Guarantee, identify of formulants and formulant type
Product: Mesotrione 28% Manufacturing Use Product Herbicide
Registration Number: 30252
Active ingredients (a.i.): Mesotrione
PMRA Document Number English PDF: 1990339

Purpose of Application

The purpose of this application was to register a new manufacturing concentrate, Mesotrione 28% Manufacturing Use Product Herbicide, based on precedent products owned by the same registrant.

Chemistry Assessment

Mesotrione 28% Manufacturing Use Product Herbicide is a liquid suspension containing mesotrione at nominal concentration of 28%. This product has a density of 1.18 g/mL and pH of 3.8 (1% in water). The chemistry for Mesotrione 28% Manufacturing Use Product Herbicide have been completed.

Health Assessments

Mestrione 28% Manufacturing Use Product Herbicide is of low toxicity to rats via the oral ($LD_{50} > 5000$ mg/kg), dermal ($LD_{50} > 5000$ mg/kg), and inhalation routes ($LC_{50} > 2.64$ mg/L). It is slightly irritating to the eyes and non-irritating to the skin of rabbits. It is not a dermal sensitizer in guinea pigs.

Dietary and occupational assessments were not required for this application.

Environmental and Value Assessment

Environmental and value assessments were not required for this application.

Conclusion

The PMRA has completed an assessment of available information for Mestrione 28% Manufacturing Use Product Herbicide and has found the information sufficient to grant a full registration for Mestrione 28% Manufacturing Use Product Herbicide.

References

- 1934906 2010, Applicants Name and Office Address - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 3.1.1,3.1.3,3.1.4 CBI
- 1934907 2010, Formulating Plant Name and Address - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 3.1.2 CBI
- 1934908 2010, Starting Materials - MESOTRIONE 28% Manufacturing Use Product - new MUP, DACO: 3.2.1 CBI
- 1934910 2010, Description of Formulation Process - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 3.2.2 CBI
- 1934911 2010, Discussion of Formation of Impurities - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 3.2.3 CBI
- 1934912 2010, Certification of Limits - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 3.3.1 CBI
- 1934913 2008, Analytical Method SF-136/1 - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 3.4.1 CBI
- 1934914 2010, Chemical and Physical Properties - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 3.5, 3.5.1, 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.5.2, 3.5.3, 3.5.4, 3.5.5, 3.5.6, 3.5.7, 3.5.8, 3.5.9 CBI
- 1980431 2010, Response to Clarification - Mesotrione 28% Manufacturing Use Product Herbicide - response to clarification, DACO: 3.3.2 CBI
- 1934915 2010, Summary - Toxicology Profile - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 4.6, 4.6.1, 4.6.2, 4.6.3, 4.6.4, 4.6.5, 4.6.6
- 1934916 2006, Acute Oral - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 4.6.1
- 1934917 2006, Acute Dermal - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 4.6.2
- 1934918 2006, Acute Inhalation - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 4.6.3
- 1934919 2006, Primary Eye Irritation - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 4.6.4
- 1934920 2006, Primary Dermal Irritation - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 4.6.5
- 1934922 2006, Dermal Sensitization - Mesotrione 28% Manufacturing Use Product - new MUP, DACO: 4.6.6
- 1980777 2010, Response from Performing Laboratory - Mesotrione 28% Manufacturing Use Product Herbicide - response to toxicology clarification, DACO: 4.6

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