

Evaluation Report for Category B, Subcategory 2.5 Application

Application Number: 2012-2636
Application: New EP Product Chemistry-Formulation Type
Product: Ally 20 SG Herbicide
Registration Number: 31092
Active ingredients (a.i.): Metsulfuron-methyl (MEM)
PMRA Document Number: 2227690

Purpose of Application

The purpose of the application was to register a new end-use product, Ally 20 SG Herbicide. Ally 20 SG Herbicide contains metsulfuron-methyl and is formulated as soluble granule for use on wheat (spring and durum), barley and established creeping red fescue, orchard grass, crested and intermediate wheat grass (seed or forage) in the Prairie Provinces and the Peace River Region of British Columbia.

Chemistry Assessment

A chemistry assessment was not required for this application as the formulation is already registered in Canada.

Health Assessments

Ally 20 SG Herbicide is of low acute oral, dermal and inhalation toxicity. A waiver submitted for acute inhalation toxicity study was accepted. It is not irritating to the eye but minimally irritating to the skin of the rabbit. It is a dermal sensitizer in the guinea pig.

No new residue data were submitted to support the registration of Ally 20 SG Herbicide containing active ingredient metsulfuron-methyl. Since the proposed application rates and use pattern for metsulfuron-methyl are the same as those currently registered for Ally Herbicide Dry Flowable 60% (Registration Number. 20214), the use of Ally 20 SG Herbicide is not expected to increase the magnitude of metsulfuron-methyl residues in/on these crops. Therefore, the use of Ally 20 SG Herbicide is not expected to increase the dietary exposure and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Ally 20 SG Herbicide uses fit within the registered use pattern for metsulfuron-methyl. The potential exposure to mixers, loaders, applicators and workers entering treated fields is not expected to exceed the current exposure to registered products. No risks of concern are expected when all label directions are followed.

Environmental Assessment

The application of metsulfuron-methyl in soluble granule form at the same rate and for the same uses as the existing applications of metsulfuron-methyl in wettable granule forms is not expected to increase environmental risk. Environmental risks were outlined in RVD2008-35.

Value Assessment

Evaluated value information included data from 9 field trials and scientific rationales. Efficacy of Ally 20 SG Herbicide applied alone at the labeled rate of 4.5 g a.i./ha were directly compared to that of the registered Ally 60 DF Herbicide (Registration Number 23005) applied alone at the same rate of active ingredient. The efficacy of Ally 20 SG Herbicide and Ally 60 DF Herbicide for Canada thistle, volunteer canola, chamomile, chickweed, common hemp-nettle, sow-thistle, lady's-thumb, lambs-quarters, redroot pigweed, and wild buckwheat was reported on 2 or 3 occasions during the field season. Trial data demonstrated that the efficacy of Ally 20 SG Herbicide was agronomically similar to Ally 60 DF Herbicide when applied as per label directions.

Visual injury to spring wheat, durum wheat, spring barley, and winter wheat was reported for the treatments of Ally 20 SG Herbicide at 4.5 and 9.0 g a.i./ha and Ally 60 DF Herbicide at the equivalent rates of active ingredients. Injury to these crops was observed to be the same for both product formulations. Yield data collected from spring and durum wheat confirmed that the listed crops can be expected to exhibit a similar margin of crop safety to both product formulations.

In addition, E.I. du Pont has registered a number of Group 2 herbicides (e.g. Refine SG Herbicide, M6316 SG Herbicide, and Pinnacle SG Herbicide) formulated as soluble granules based on their respective wettable granule formulations in recent years. Efficacy and crop safety of the SG formulations have not been observed to differ from the respective precedent WG formulations.

Based on the weight of evidence, the registration of Ally 20 SG Herbicide is supported from a value standpoint. The registration of Ally 20 SG Herbicide would provide growers with an improved water soluble formulation of metsulfuron-methyl.

Conclusion

The PMRA has conducted a review of the available information and has concluded that Ally 20 SG Herbicide can be supported for full registration.

References

PMRA No.	Reference
2209874	2012, DACO 10 submission to bridge the use pattern of Ally Herbicide dry flowable 60% to a new Ally 20 SG formulation, DACO: 10.1,10.2,10.2.1,10.2.2,10.2.3,10.2.3.1,10.2.3.3,10.2.3.3(B),10.3.1,10.3.2
1166598	2002, Metsulfuron Methyl (DPX-T6376) 20SG (Soluble Paste Extruded Granule): Acute Oral Toxicity - Fixed Dose Method, DACO: 4.6.1
1166600	2002, Metsulfuron Methyl (DPX-T6376) 20SG (Soluble Paste Extruded Granule): Acute Dermal Toxicity in Rats, DACO: 4.6.2
1166601	2002, Metsulfuron Methyl (DPX-T6376) 20SG (Soluble Paste Extruded Granule): Acute Eye Irritation Study in Rabbits, DACO: 4.6.4
1166603	2002, Metsulfuron Methyl (DPX-T6376) 20SG (Soluble Paste Extruded Granule): Acute Dermal Irritation Study in Rabbits, DACO: 4.6.5
1166604	2002, Metsulfuron Methyl (DPX-T6376) 20SG (Soluble Paste Extruded Granule): Dermal Sensitization - Magnusson-Kligman Maximization Method, DACO: 4.6.6
1166611	2006, Acute Inhalation Toxicity - Data Citation to Support Registration of Metsulfuron Methyl 20SG MUP, DACO: 4.6.3
1166612	2002, Metsulfuron Methyl 20SG Water-Soluble Granular Herbicide Formulation: Laboratory Study of Physical and Chemical Properties, DACO: 4.6.3

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