

Evaluation Report for Category B, Subcategory B.2.3, B.2.4 Application

Application Number: 2008-0417
Application: B.2.3 (New EP Product Chemistry – Identity of Formulants)
B.2.4 (New EP Product Chemistry – Proportion of Formulants)
Product: Turbocharge A12724H Adjuvant
Registration Number: 29449
Active ingredients (a.i.): Mineral oil – Paraffin base (MOA), Surfactant Blend (XXX)
PMRA Document Number : 1804383

Purpose of Application

The purpose of this application is to register a new adjuvant Turbocharge A12724H Adjuvant, based on the precedent Turbocharge EST Adjuvant (Reg. No. 25659).

Chemistry Assessment

Turbocharge A12724H Adjuvant is a liquid containing the active ingredients mineral oil at a nominal concentration of 50 % and surfactant blend at 40 %. This product has a density of 0.88 g/cm³ and pH of 6 – 8 for a 1 % solution in water. The chemistry requirements for Turbocharge A12724H Adjuvant have been completed.

Health Assessments

Turbocharge A12724H Adjuvant is of low toxicity to rats via the oral (LD₅₀ > 5000 mg/kg), dermal (LD₅₀ > 5050 mg/kg), and inhalation routes (LC₅₀ > 5.16 mg/L). It is minimally irritating to the eye and slightly irritating to the skin of rabbits. It is not a dermal sensitizer in guinea pigs.

The uses of the new adjuvant, Turbocharge A12724H Adjuvant, fall within the registered use pattern for the active ingredient mineral oil. No unacceptable risk is expected when workers follow the directions identified on the label.

No new residue data were submitted to support the registration of Turbocharge A12724H Adjuvant; a formulation based on Turbocharge EST Adjuvant (Reg. No. 28659) that has the same use pattern. Following a comparison of the registered and the proposed formulation, no change in the magnitude of the residues is expected. Therefore, no increase in dietary exposure is anticipated. The change in the formulation of Turbocharge A12724H Adjuvant will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The proposed Turbocharge A12724H Adjuvant is almost identical to the registered Turbocharge and Turbocharge EST Adjuvants, excepting for the NPE found in the registered adjuvants and one surfactant component. The registrant is proposing the same target crops, application methods and rates as the registered adjuvants. These differences in between the proposed Turbocharge A12724H Adjuvant and the registered adjuvants are not considered to pose an increase in environmental risk. Based on the available information, the request to register Turbocharge A12724H Adjuvant based on the precedent Turbocharge and Turbocharge EST Adjuvants, can be supported without additional data.

Value Assessment

Value data generated from efficacy and crop tolerance field trials were submitted to establish the agronomic equivalence of Turbocharge A12724H Adjuvant and Turbocharge Adjuvant when used in tank mix with Achieve Liquid Herbicide (Reg. No. 27011) or Venture L Herbicide (Reg. No. 21209) on spring wheat and barley.

Efficacy data were submitted from 8 field trials conducted in 2005 at locations throughout Alberta, Saskatchewan and Manitoba to assess the efficacy of Turbocharge A12724H Adjuvant + Achieve Herbicide on green foxtail and wild oat. The data support agronomic equivalence of Turbocharge Adjuvant and Turbocharge A12724H Adjuvant from an efficacy perspective.

Crop phytotoxicity data were submitted from 8 field trials in 2005 at locations throughout Alberta, Saskatchewan and Manitoba to assess the crop tolerance of spring wheat and barley following applications of Turbocharge A12724H Adjuvant + Achieve Herbicide. The data support agronomic equivalence of Turbocharge Adjuvant and Turbocharge A12724H Adjuvant from a crop tolerance perspective.

Conclusion

The PMRA has completed an assessment of all available information and has found that the registration of Turbocharge A12724H Adjuvant to be acceptable.

References

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| PMRA 1607738 | 2008, 3.1.2 -Formulating Plant's Name and Address - TURBOCHARGE A12724H Adjuvant, DACO: 3.1.2 CBI |
| PMRA 1607739 | 2008, 3.2.1 - Description of Starting Materials - TURBOCHARGE A12724H Adjuvant, DACO: 3.2.1 CBI |
| PMRA 1607740 | 2008, 3.3.1 - Establishing Certified Limits - TURBOCHARGE A12724H Adjuvant, DACO: 3.3.1 CBI |
| PMRA 1607741 | 2008, 3.5.1 - Chemical and Physical Properties - TURBOCHARGE A12724H Adjuvant, DACO: 3.5.1,3.5.2,3.5.3,3.5.4,3.5.5,3.5.6,3.5.7,3.5.9 CBI |
| PMRA 1609387 | DACO: 3.1.1,3.1.3 CBI |

PMRA 1772178 2009, 3.2.2 Response to Clarifax_ TURBOCHARGE A12724H
Adjuvant_Sub. No. 2008-0417_09-07-04, DACO: 3.2.2,3.5,3.5.10,3.5.12,
3.5.13,3.5.14,3.5.8 CBI

PMRA 1546205 2008, Value Summary DACO 10.2.3.1 Efficacy Summary P.11

PMRA 1546208 2008, Value Summary DACO 10.3.1 Crop Tolerance Summary P.7

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