

## Evaluation Report for Category B, Subcategory 2.1, 2.3 & 2.4 Application

**Application Number:** 2008-5973  
**Application:** B.2.1 New End-Use Product with changes to Guarantee  
B.2.3 New End-Use Product with new Identity of Formulants  
B.2.4 New End-Use Product with new Proportion of Formulants  
**Product:** Lorsban II Insecticide  
**Registration Number:** 29650  
**Active ingredients (a.i.):** Chlorpyrifos (DUB)  
**PMRA Document Number English PDF:** 2020275

### Purpose of Application

The purpose of this application was to register a new end-use product based the precedent product, Lorsban 4E Insecticide (Registration Number 14879), from the same registrant.

### Chemistry Assessment

Lorsban II Insecticide is formulated as an emulsifiable concentrate containing chlorpyrifos at a nominal concentration of 40.20%. This end use product has a density of 1.125 g/mL and a pH of 4.4. With the exception of the storage stability and corrosion studies the chemistry requirements for Lorsban II Insecticide are complete.

### Health Assessments

Lorsban II Insecticide is of high toxicity to rats via the oral route ( $LD_{50}$  of < 500 mg/kg). It is of low acute toxicity to rats via the dermal ( $LD_{50}$  of > 5000 mg/kg) and inhalation ( $Lc_{50}$  of > 2 mg/L) routes. It is mildly irritating to the eyes and moderately irritating to the skin of rabbits. Lorsban II Insecticide is also a potential skin sensitizer.

The proposed changes in formulation are not expected to increase the potential occupational exposure to chlorpyrifos over currently registered uses. No further data are required to assess the proposed use of Lorsban II Insecticide. No additional label statements are required.

### Environmental Assessment

An environmental assessment was not conducted for this application as the proposed application methods and rates fall within the registered uses of its precedent product, Lorsban 4E Insecticide. Therefore, the registration and uses of the subject product are not expected to increase the environmental risk.

## Value Assessment

The use of Lorsban II Insecticide for the control of the proposed pests on canola and wheat can be supported based on the submitted efficacy data. The changes in formulation are not expected to affect efficacy.

## Conclusion

The Pest Management Regulatory Agency has completed an assessment of the subject application and found the information sufficient to register Lorsban II Insecticide based on the precedent product, Lorsban 4E Insecticide (Registration Number 14879), from the same registrant.

## References

### PMRA# Reference

- |         |   |
|---------|---|
| 1692026 | 2007, Group B - Physical/Chemical Properties for GF-2153 A Liquid End Use Product Containing Chlorpyrifos, DACO: 3.5.1, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.5.2, 3.5.3, 3.5.4, 3.5.6, 3.5.7, 3.5.8, 3.5.9 CBI   |
| 1692028 | 2007, Determination of Colour, Physical State, Odour, Oxidizing and Reducing Action, Flashpoint, Explodability, pH, Viscosity, and Density of GF-2153, and End Use Product Containing Chlorpyrifos, DACO: 3.5.1, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.5.2, 3.5.3 |
| 1692029 | 2008, GF-2153 Accelerated Storage Stability in Glass and Eight-Week Accelerated Storage Stability and Package Corrosion Characteristics in PET and F-HDPE, DACO: 3.5.10, 3.5.14, 3.5.5 CBI  |
| 1727028 | 2007, Group A - Product Identity, Composition and Analysis for GF-2153, an end-use product containing Chlorpyrifos, DACO: 3.2.1, 3.3.1, 3.4.1 CBI   |
| 1744903 | 2007, 090423 Response to clarification-Details for GF-2153 Composition of test substance used in acute tox-Lorsban Advanced, DACO: 3.2.1, 4.6.1, 4.6.2, 4.6.4, 4.6.5, 4.6.6 CBI   |

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