

## Evaluation Report for Category B, Subcategory B.4.1 Application

**Application Number:** 2007-7207  
**Application:** Conversion to full registration without consultation  
**Product:** Adigor Adjuvant  
**Registration Number:** 28151  
**Active ingredients (a.i.):** Adjuvant  
**PMRA Document Number :** 1975007

### Purpose of Application

Syngenta has submitted a request to convert Adigor Adjuvant (Registration Number 28151) from conditional to full registration. The conversion of this product is contingent on the conversion of Crestivo Herbicide (Registration Number 28150) and Pinoxaden Technical (Registration Number 28149).

### Chemistry Assessment

Adigor Adjuvant is a liquid containing methylated rape seed oil at a nominal concentration of 48.8% and ethoxylated alcohols at a nominal concentration of 28.2%. This product has a specific gravity of 0.922. The chemistry requirements for Adigor Adjuvant have been completed.

### Health Assessments

Refer to the Regulatory Note REG 2006-14 Pinoxaden for a detailed assessment of the toxicological database, occupational exposure assessment and food residue assessment for Adigor Adjuvant (Registration Number 28151).

### Environmental Assessment

Adigor adjuvant enters the environment when used as an adjuvant registered pesticides, for the control of specific grass weeds in spring wheat (*Triticum aestivum*), durum wheat (*Triticum turgidum*) and barley (*Hordeum* spp.) in the Prairie provinces and the Peace River, Okanagan and Creston Flats regions of British Columbia. Additional studies on the acute toxicity of pinoxaden to bees, fish and daphnia were submitted to the PMRA to support the conversion to full registration. No additional risk was identified upon review of these studies.

## Value Assessment

Efficacy data from sixty-nine (69) trials conducted in 2006 in Alberta, Saskatchewan and Manitoba were submitted to establish the lowest effective rate for wild oats, green foxtail, yellow foxtail, volunteer oats, volunteer canary seed and volunteer proso millet. All trials were conducted as randomized complete block design experiments with 4 replicates. Treatments included Axial 100EC at 30, 45 and 60 g ai/ha along with the adjuvant Adigor at 0.7 L/ha.

Based on the data made available for review and on the data made available for the original application for pinoxaden (refer to REG2006-14), the rate of 60 g ai/ha of pinoxaden + 0.7 L/ha of Adigor Adjuvant was confirmed as the rate of application for the control of wild oats, green foxtail, yellow foxtail, volunteer oats, volunteer canary seed and proso millet.

The data provided indicated that the rate of 60 g ai/ha of pinoxaden + 0.7 L/ha of Adigor Adjuvant was required to provide an acceptable level of control for wild oats, green foxtail, yellow foxtail, volunteer oats, volunteer canary seed and proso millet.

## Conclusion

The PMRA has conducted a review of the available information and can support the conversion of Adigor Adjuvant (Registration Number 28151) from conditional to full registration.

## References

### Studies/Information Provided by Applicant/Registrant

<u>PMRA #</u>	<u>Reference</u>
1521761	2007, Efficacy Summary: Conditions of Registration, DACO: 10.2.3.1
1521762	2007, Pivot Table, DACO: 10.2.3.1
1521764	2007, Field Trial Reports, DACO: 10.2.3.3
1521786	2007, Final Report: An Acute Oral Toxicity Study with the Honey Bee, DACO: 9.2.4.2 CBI
1521788	2007, Final Report: A 96-Hour Flow Through Acute Toxicity Test with the Saltwater Mysid, DACO: 9.4.2 CBI
1521790	2007, Final Report: A 96-Hour Flow Through Acute Toxicity Test with the Rainbow Trout, DACO: 9.5.2.1 CBI
1521792	2007, Final Report: A 7-Day Static-Renewal Toxicity Test with the Duckweed (Lemna gibba G3), DACO: 9.8.5 CBI
1521793	2007, Template: A 7-Day Static-Renewal Toxicity Test with the Duckweed (Lemna gibba G3), DACO: 9.8.5 CBI
1521794	2007, Final Report: A 7-Day Static-Renewal Toxicity Test with the Duckweed (Lemna gibba G3), DACO: 9.8.5 CBI
1521795	2007, Template: A 7-Day Static-Renewal Toxicity Test with the Duckweed (Lemna gibba G3), DACO: 9.8.5 CBI
1521796	2007, Final Report: A 7-Day Static-Renewal Toxicity Test with the Duckweed (Lemna gibba G3), DACO: 9.8.5 CBI

## Published Information

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Spector, W.S. 1956. Handbook of Biological Data. W.B. Saunders Co., Philadelphia, PA.

Urban DJ; Cook NJ. 1986. Hazard Evaluation Division, Standard Evaluation Procedure, Ecological Risk Assessment. EPA 540/9-85-001. US EPA, Washington, DC.

U.S. EPA. (1988) Recommendations for and documentations of biological values for use in risk assessment. PB88 179874, EPA/600/6-87/008. Cincinnati, Ohio.

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ISSN: 1911-8082

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