

## Evaluation Report for Category B, Subcategory B.3.10 Application (New or Changes to Product Label - Tank Mixes)

**Application Number:** 2013-6110  
**Application:** Category B, Subcategory B.3.10 (new or changes to product label - Tank mixes)  
**Product:** Hasten NT Spray Adjuvant  
**Registration Number:** 28277  
**Active ingredients (a.i.):** 71.44% Methyl and ethyl oleate (esterified vegetable oil)  
**PMRA Document Number :** 2419952

### Background

Hasten NT Spray Adjuvant (Reg. No. 28277) consists of esterified vegetable oils in combination with a blend surfactant and is registered at a rate range of 0.25-1.0% v/v for use with an array of herbicides and an insecticide. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

### Purpose of Application

The purpose of this application is to amend the registration of Hasten NT Spray Adjuvant to include DuPont Truvisit Herbicide, DuPont Navius Herbicide, DuPont Rejuvra Herbicide, and Impact Herbicide as new tank mix options.

### Chemistry, Health, and Environmental Assessments

Chemistry, health, and environmental assessments were not required as there was no change to product chemistry, formulation, and use pattern.

### Value Assessment

Data from three scientifically designed field trials conducted in non-cropland in Ontario in 2011 and 2013 were submitted. Efficacy of each of DuPont Truvisit Herbicide, DuPont Navius Herbicide, and DuPont Rejuvra Herbicide applied with Hasten NT Spray Adjuvant was directly compared to the registered treatment of the same herbicides applied with Agral 90 for a number of weed species in one trial. Data demonstrated that efficacy of these herbicides applied with Hasten NT Spray Adjuvant was comparable to that of the same herbicides applied with Agral 90.

In addition, it was previously concluded that Hasten NT Spray Adjuvant can be substituted for a NIS when applied with a number of other herbicides, e.g., Refine Extra, DuPont Escort, Adrenalin SC, etc.

Further information is not required for including Impact Herbicide as a tank mix option on the Hasten NT Adjuvant label since Hasten NT Spray Adjuvant is labelled as a tank mix option for Impact Herbicide.

Confirmatory data from two scientifically designed field trials conducted on field corn in Ontario in 2012 were submitted. Efficacy and crop safety of each of Impact Herbicide plus atrazine and Impact Herbicide plus Frontier Max plus atrazine applied with Hasten NT Spray Adjuvant was directly compared to the same herbicide combinations applied with Merge Adjuvant in one trial. Data confirmed that efficacy and crop safety of these herbicide combinations applied with Hasten NT Spray Adjuvant were comparable to those of the same herbicide combinations applied with Merge Adjuvant.

## Conclusions

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Hasten NT Spray Adjuvant to include DuPont Truvis Herbicide, DuPont Navius Herbicide, DuPont Rejuvra Herbicide, and Impact Herbicide as new herbicide tank mix options.

## References

### List of Studies/Information Submitted by Registrant

PMRA #	References
2361048	2012, Vegetative management field trial adjuvant trial, Navius Herbicide, DACO: 10.2.3.3(B) and 10.3.2(A).
2361049	2012, Vegetative management field trial adjuvant trial, Truvis Herbicide, DACO: 10.2.3.3(B) and 10.3.2(A).
2361050	2013, Weed control in corn with topramezone plus dimethenamid-p plus atrazine plus adjuvants I (Confidential), DACO: 10.2.3.3(B) and 10.3.2(A).
2361051	2013, Weed control in corn with topramezone plus atrazine plus adjuvants I (Confidential), DACO: 10.2.3.3(B) and 10.3.2(A).
2361052	2013, Hasten NT plus Rejuvra XL, DACO: 10.2.3.3(B) and 10.3.2(A).

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