

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

**Application Number:** 2008-1736  
**Application:** Category C, Subcategory C.3.10 Application (New or Changes to Product Label - Tank Mixes)  
**Product:** Touchdown iQ Liquid Herbicide  
**Registration Number:** 27192  
**Active ingredients (a.i.):** 360 grams glyphosate present as diammonium salt  
**PMRA Document Number :** 1635347

### Background

Touchdown iQ Liquid Herbicide containing 360 g a.e./L glyphosate (present as diammonium salt) is registered for non-selective control of annual and perennial grasses and broadleaf weeds. 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 for Touchdown iQ Liquid Herbicide to include a tank mix with 100 g a.i./ha Callisto 480SC (Reg. No. 27833) + 1.14-1.60 kg a.i./ha Dual II Magnum (Reg. No. 25729) for the additional residual control of annual and perennial weeds listed on the Callisto 480SC and Dual II Magnum labels in glyphosate tolerant field corn.

### Chemistry Assessment

A chemistry assessment was not required as there was no change to product chemistry.

### Health Assessment

A health assessment was not required as there was no change to the product formulation and use pattern.

### Environmental Assessment

An environmental assessment was not required as all the components of the tank mixture are presently registered for use on field corn.

### Value Assessment

A rationale in lieu of data was submitted in support of a tank mixture of Touchdown iQ Liquid + Callisto 480SC + Dual II Magnum for post-emergence use in glyphosate tolerant field corn up to and including the 6 leaf stage. Labelling of this tank mixture can be supported based on the following facts:

1. The application rate for each component product is presently registered in field corn or glyphosate tolerant field corn;

2. The application timing for the tank mixture fits within the application window for each component product;
3. Tank mixtures of Callisto 480SC + various glyphosate products are currently registered and are included on the Callisto 480SC label for post-emergence use in glyphosate tolerant field corn;
4. Dual II Magnum is registered in tank mixture with various glyphosate products for pre-plant surface and pre-emergent applications in field corn;
5. Data from field research trials previously submitted were sufficient in support of the tank mixtures of Touchdown iQ Liquid + Callisto 480SC + Agral 90 in glyphosate tolerant field corn (up to the 8 leaf stage) and Touchdown iQ Liquid + Dual II Magnum in glyphosate tolerant field corn (up to the 6 leaf stage) (application numbers 2007-4400 and 2007-4424); and
6. The tank mixture of Dual II Magnum + Callisto 480SC Herbicide is registered for early post-emergent (from the spike to 2 leaf stage) use in field corn and is included on both the Dual II Magnum and Callisto 480SC labels. It was also concluded in previous review that antagonism and synergism were not observed when tank mixing Callisto 480SC Herbicide with Dual II Magnum (refer to REG 2005-02).

## Conclusions

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Touchdown iQ Liquid to include a tank mixture of Touchdown iQ Liquid + Callisto 480SC + Dual II Magnum for control of annual and perennial grasses and broadleaf weeds in glyphosate tolerant field corn up to and including the 6 leaf stage.

## References

### List of Studies/Information Submitted by Registrant

- |                             |  |
|-----------------------------|--|
| PMRA # 1432033:             | Summary of efficacy trials. Syngenta. DACO 10.2.3.1. pp. 8.                          |
| PMRA # 1432034 and 1432043: | Trial reports submitted under 2007-4397. Syngenta. DACO 10.2.3.3 and 10.3.2. pp 304. |
| PMRA # 1432042:             | Summary of non-safety adverse effects. Syngenta. DACO 10.3.1. pp. 8.                 |
| REG 2005-02:                | Mesotrione – Callisto 480SC Herbicide.   |

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