

## Evaluation Report for Category B, Subcategory 3.13 Application

**Application Number:** 2006-0341  
**Application:** Category B, Subcategory B.3.13 - S-A-EP  
**Product:** Reward Aquatic Herbicide  
**Registration Number:** 26271  
**Active ingredients (a.i.):** Diquat Ion (240 g/L - present as dibromide)  
**PMRA Document Number:** 1564807

### Background

Reward Aquatic Herbicide (PCP#26271), containing 240 g/L of diquat ion (present as dibromide), has been registered since February 22, 2006 for use in still or slow flowing water of farm dugouts, farm ponds, farm ditches, lakes and canals for postemergent control water weeds such as Coontail (*Ceratophyllum sp*), Duckweed (*Lemna sp*), Canada Water Weed (*Elodea, Anacharis sp*), Pondweeds (*Potamogeton sp*), and Water Milfoil (*Myriophyllum sp*). Its use rate is 9.2 - 18.3 L/ha, and can be applied up to 25-29.2 L/ha in waters which are more than 1.5 m deep. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Syngenta Crop Protection Canada, Inc. applied for amended registration for Reward Aquatic Herbicide. This submission is classified as a Category B.3.13 - S-A-EP.

Syngenta has submitted an updated acute toxicology package for Reglone Desiccant (Submission No. 2006-0341), and the same package has been submitted in support of for the EP named in this submission, which contains the same formulation, and is also known as Diquat water weed killer. As a consequence of the updated acute toxicological package, the primary panel as well as First Aid, Toxicological information and precautions section of the label have been modified. Acute oral, dermal, eye and skin irritation and skin sensitization studies were conducted with Diquat Dibromide SL (240) an identical formulation to Reward Aquatic Herbicide. An acute inhalation study was carried out with Diquat Water Weed Killer (SX-1574). This end-use product contains 19.5% diquat ion similar to Reward Aquatic Herbicide and the formulation which contain 19.9% diquat ion.

## **Purpose of Application**

Syngenta Crop Protection Canada, Inc. (SYZ) has submitted a proposal to amend the precautionary statements on the Reward Aquatic Herbicide label (PCP No. 26271) with respect to primary panel statements, first aid, toxicology and precautions.

## **Chemistry Assessment**

No chemistry assessment was required.  
(No chemistry evaluator was assigned to this submission.)

## **Health Assessments**

### **(TOX) Health Assessment**

Reward Aquatic Herbicide exhibits a moderate acute oral and a low acute dermal toxicity in the rat. It produces a slight acute inhalation toxicity in the rat and is minimally irritating to the eye but mildly irritating to the skin of the rabbit. It is not a dermal sensitizer in the guinea pig.

### **(OEAS) Health Assessment**

NEED INPUT FROM EVALUATOR (ted hagen)

### **(FREAS) Health Assessment**

No new data were required to support the change of precautionary statements. The amendment of the precautionary statements are not expected to impact the the residues in/on commodities treated with end use products containing the active ingredient diquat. Therefore, no increase in dietary exposure is anticipated.

## **Environmental Assessment**

An environment assessment was not required to support the change of precautionary statements on the label. Furthermore, because the product chemistry, and the use pattern (including host crops, application rates and timings) of the component products remains unchanged, there are no environmental concerns resulting from the label amendment.

## **Value Assessment**

No value assessment was required.  
(No VSAD evaluator was assigned to this submission.)

## **Conclusion**

The PMRA has completed an evaluation of the subject application and has found the information sufficient to support the formulation change for Cruiser 5FS Seed Treatment Insecticide.

## References

### Reference for (TOX) Health Assessment

1. PMRA 1362793 Diquat (Ion) as Diquat Dibromide SL (240 (A12872A): Acute Oral Toxicity in Rats. STILLMEADOWS, Inc. 12852 Park One Drive Sugar Land, TX 77478. Laboratory report number 8335-04. Study report date: 23 August-2004. . DACO 4.6.1
2. PMRA 1362794 Diquat (Ion) as Diquat Dibromide SL (240 (A12872A): Acute Dermal Toxicity Study in Rats. STILLMEADOWS, Inc. 12852 Park One Drive Sugar Land, TX 77478. Laboratory report number 8336-04. Study report date: 9 July-2004. . DACO 4.6.2.
3. PMRA 1362295 The Acute Inhalation Toxicity of Diquat Water Weed Killer SX 1574 (19.5(% a.i.) in Rats. Chevron Environmental Health Center, Richmond, CA. Social project No. 2353. Study report date: 20th-October-1985. . DACO 4.6.3.
4. PMRA 1362296 Diquat 2240G/L SL Formulation (A-12872A) Eye Irritation Study in the Rabbit. Central Toxicology Laboratory, Alderley Park, Macclesfield Cheshire UK. Laboratory report number. FB6085 15 April, 2004. DACO 4.6.4.
5. PMRA 1362297 Diquat 2240g/L SL Formulation (A-12872A) Skin Irritation Study in the Rabbit. Central Toxicology Laboratory, Alderley Park, Macclesfield Cheshire UK. Laboratory report number. FB5070 7 May, 2004. DACO 4.6.5.
6. PMRA 1362298 Diquat (Ion) as Diquat Dibromide SL (240) (A-12872A) Skin Sensitization Study in Guinea Pigs. STILLMEADOWS, Inc. 12852 Park One Drive, Sugar Land, TX 77478. . Laboratory report number. 8337-04 Study report date: 23-August -2004. Applicant Report Number. T013413-04. DACO 4.6.6.

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