

## Evaluation Report for Category B, Subcategory 3.12 Application

**Application Number:** 2020-3490  
**Application:** Changes to Product Labels – Site or Host  
**Product:** Reglone Ion  
**Registration Number:** 31058  
**Active ingredient (a.i.):** Diquat  
**PMRA Document Number:** 3222482

### Purpose of Application

The purpose of this application was to amend the Reglone Ion label to expand the registered claims for desiccation of white and red kidney beans, adzuki beans, chickpeas, lentils, field peas, and sweet white lupins to include all crops in Crop Subgroup 6C (Dried shelled pea and bean, except soybean).

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

The occupational exposure and risk from the expansion of use on crops within Crop Subgroup 6C to the Reglone Ion label was assessed. No risks of concern are expected from the new uses, provided that workers follow the label directions and wear the personal protective equipment identified on the label.

No new residue data for diquat were submitted to support the use expansion to all crops within Crop Subgroup 6C on the Reglone Ion label. Previously reviewed residue data from field trials conducted in/on dry peas, chickpeas, lentils and dry beans were reassessed in the framework of this application. Based on this assessment, residues of diquat are not expected to be greater than those for the currently registered uses and will be covered by the established MRLs. Consequently, dietary exposure to residues of diquat is not expected to increase and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

A toxicology assessment was not required for this application.

## **Environmental Assessment**

Reglone Ion is registered for desiccation of several Crop Subgroup 6C crops including sweet white lupins (*Lupinus* spp.), red and white kidney beans (*Phaseolus* spp.), adzuki beans (*Vigna* spp.), chickpea, lentils, field peas (*Pisum* spp.) and broad (fava) beans. It is being applied through ground and aerial applications with a maximum application rate of 2.76 L/ha (552 g a.i./ha). No new environmental data were submitted and no additional environmental data are required. The application methods (ground and aerial application methods) and maximum application rate [2.76 L/ha (552 g a.i./ha)] for desiccation of all crops in Crop Subgroup 6C are similar from the already registered application methods and maximum application rate for desiccation of several pulse crops. Therefore, the proposed use expansion does not require an environmental risk assessment. Mitigation measures including spray buffer zone requirements are adequate.

## **Value Assessment**

Chemical desiccation to dry down crop foliage and weeds reduces the time from maturity to threshing readiness, reduces shatter losses, and can result in improved harvest quality if the crop is harvested before being exposed to wet and cold weather. Expansion of the Reglone Ion label from the registered kidney bean, white sweet lupin, adzuki bean, chickpea, lentil, and field pea to include all crops in Crop Subgroup 6C allows growers to use an already-known product as a harvest aid for the rest of crops in Crop Subgroup 6C.

Value information in the form of a scientific rationale was submitted to support the label expansion. This information indicated that the currently labelled crops well represent all crops in Crop Subgroup 6C, i.e., all crops are members of the *Fabaceae* family, share common agronomic practices, respond similarly to a desiccant/herbicide application, etc. Furthermore, the registered use pattern remains the same for all the crops in Crop Subgroup 6C.

Based on the weight of evidence, the expansion of the Reglone Ion label to include all crops in Crop Subgroup 6C was considered to have acceptable value.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the available information and has found it sufficient to support the amendment to the label for Reglone Ion to include all crops in Crop Subgroup 6C (Dried shelled pea and bean, except soybean).

## References

PMRA Document Number 3143679	References  2020, Reglone Desiccant and Reglone Ion value summary, DACO: 10.1
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