Health Canada Santé Canada

# Evaluation Report for Category B, Subcategory B.1.1 Application

**Application Number:** 2012-1826
**Application:** New source of technical grade active ingredient, by same registrant
**Product:** Diuron Technical Herbicide
**Registration Number:** 21071
**Active ingredients (a.i.):** Diuron
**PMRA Document Number : 2247600**

## Background

Diuron is an active ingredient that has registered uses to control annual and perennial broad leaved and grassy weeds in food crops (grapes and asparagus) and in non-crop areas (including industrial sites and irrigation/draining ditches) as well as to control algae in ponds and dugouts.

## Purpose of Application

The purpose of this application was to register a new source of diuron by the same registrant.

## Chemistry Assessment

Common Name: Diuron
IUPAC Chemical Name: 3-(3,4-dichlorophenyl)-1,1-dimethylurea
CAS Chemical Name: *N*′-(3,4-dichlorophenyl)-*N*,*N*-dimethylurea

Diuron Technical Herbicide has the following properties:

| Property | Result |
|---|---|
| Colour and physical state | Off-white solid |
| Nominal concentration | 98.4% |
| Odour | Odourless |
| Density/specific gravity | 0.581 g/cm$^3$ (bulk density); 1.48 (specific gravity) |
| Vapour pressure at 25°C | 1.1 × 10$^{-3}$ mPa |
| pH | 6.3 (aqueous slurry) |
| Solubility in water | 36.4 mg/L |
| n-Octanol/water partition coefficient | Log $K_{ow}$ = 2.85 (25°C) |

The chemistry requirements for Diuron Technical Herbicide have been completed.



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## Health, Environmental, and Value Assessments

Health, environmental, and value assessments were not required for this application.

## Conclusion

The source of the technical grade active ingredient was found to be chemically equivalent to the previously registered sources.

## References


| PMRA Document Number | Reference |
|---|---|
| 2189546 | 2010, Technical grade diuron (DPX-14740): Product identity and composition, description of materials used to produce the product, production process and formation of impurities, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI |
| 2189547 | 2010, Technical grade diuron (DPX-14740): Product identity and composition, description of materials used to produce the product, production process and formation of impurities, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI |
| 2189548 | 2012, Batch analysis of diuron (DPX-14740), DACO: 2.12.1,2.13.3 CBI |
| 2189550 | 2012, Batch analysis of diuron (DPX-14740), DACO: 2.12.1,2.13.3 CBI |
| 2189551 | 2010, Validation of the analytical method for determination of diuron (DPX-14740) in technical grade diuron, DACO: 2.13.1,2.13.2 CBI |
| 2189552 | 2010, Validation of the analytical method for determination of diuron (dpx-14740) in technical grade diuron, DACO: 2.13.1,2.13.2 CBI |
| 2189553 | 2012, Description and validation of the analytical methods for determination of impurities in technical grade diuron (DPX-14740), DACO: 2.13.1,2.13.2 CBI |
| 2189555 | 2012, Description and validation of the analytical methods for determination of impurities in technical grade diuron (DPX-14740), DACO: 2.13.1,2.13.2 CBI |
| 2244638 | 2012, Sample of Diuron Technical, DACO: 2.15 CBI |
| 2244640 | 2012, DACO 2.13.1 response, DACO: 2.13.1 CBI |
| 2244641 | 2006, Determination of diuron (DPX-14740) in technical grade diuron and diuron end-use products, DACO: 2.13.1 CBI |
| 2244642 | 2010, IMP prep sheet, DACO: 2.13.1 CBI |


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