

## Evaluation Report for Category B, Subcategory 1.2 Application

**Application Number:** 2012-1186  
**Application:** New Source of Technical Grade Active Ingredient by a New Registrant  
**Product:** Productierra Glyphosate Technical  
**Registration Number:** 31062  
**Active ingredients (a.i.):** Glyphosate  
**PMRA Document Number:** 2327735

### Background

The source of glyphosate used to determine chemical equivalence was Registration Number 19535.

### Purpose of Application

The purpose of this application was to register a new source of the active ingredient, glyphosate, by a different Registrant.

### Chemistry Assessment

Productierra Glyphosate Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98.0%
Odour	Odourless
Specific gravity at 20°C	1.705
Vapour pressure at 25°C	$1.31 \times 10^{-2}$ mPa
pH	1.64-1.85 (20-25°C)
Solubility in water	10.5 g/L
n-Octanol/water partition coefficient	$\text{LogK}_{ow} = < -3.2$ (pH 2-5, 20°C)

The chemistry requirements for Productierra Glyphosate Technical have been completed.

### **Health and Environmental Assessments**

As the new source of glyphosate is chemically equivalent to the registered source, the health and environmental risk profiles are expected to be similar to that of the product used to determine chemical equivalence. No additional assessments were required.

### **Value Assessment**

A value assessment is not required for technical grade active ingredient products.

### **Conclusion**

The PMRA has completed an evaluation of the subject application and has determined that it can support the registration of Productierra Glyphosate Technical

## References

### Studies/Information Provided by Applicant

PMRA No.	Title
2175924	2012, PMRA Chemistry Template Partial Complete, DACO: 2.12,2.12.1,2.14,2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.14,2.14.2,2.14.3,2.14.4,2.14.6,2.14.7,2.14.8,2.14.9,2.2,2.3,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2175929	2012, Summary of Productierra Glyphosate Technical Product Chemistry Test Guidelines, DACO: 2.0,2.1,2.2,2.3,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2175930	2012, Spreadsheet of Starting Material Sources for [Privacy removed], DACO: 2.11.2 CBI
2175945	2012, Productierra Glyphosate Technical Product Identity and Composition, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI
2175946	2011, Final Report - Preliminary Analysis/5-Batch Assay, DACO: 2.12,2.12.1,2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
2175956	2005, Product Chemistry of Glyphosate Acid TGAI, Selected Studies to Fulfill the Requirements of OPPTS Guidelines 830.6302, 830.6303, 830.6304, 830.7000, 830.7300, 830.7550/830.7560/830.7570, 830.7840/830.7860, 830.7950, DACO: 2.14,2.14.1,2.14.10,2.14.11,
2175959	2005, Product Chemistry of Glyphosate Acid TGAI, Selected Studies to Fulfill the Requirements of OPPTS Guidelines 830.6302, 830.6303, 830.6304, 830.7000, 830.7300, 830.7550/830.7560/830.7570, 830.7840/830.7860, 830.7950, DACO: 2.14.13 CBI
2175968	2011, Product Chemistry, DACO: 2.14,2.14.1,2.14.2,2.14.3,2.14.4,2.14.6,2.14.7 CBI
2175969	2011, Product Chemistry, DACO: 2.14,2.14.10,2.14.11,2.14.12,2.14.13 CBI
2175970	2009, Determination of Active Content and Impurity Profile of Glyphosate, DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
2175983	2012, Manufacturing Process Glyphosate Technical Grade, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI
2175991	2008, Physical State Appearance and Color of Glyphosate Technical, DACO: 2.14,2.14.1,2.14.2 CBI
2175992	2008, Melting Point and Range of Glyphosate Technical, DACO: 2.14,2.14.4 CBI
2175993	2008, Vapor Pressure of Glyphosate Technical, DACO: 2.14,2.14.9 CBI
2175994	2008, Solubility in Water and Organic Solvents of Glyphosate Technical, DACO: 2.14,2.14.7,2.14.8 CBI
2175995	2008, Determination of the pH value of an aqueous solution of Glyphosate Technical, DACO: 2.14 CBI
2175996	2008, Partition Coefficient (N-octanol/water) of Glyphosate Technical, DACO: 2.14,2.14.11 CBI
2175998	2008, Determination of Bulk Density of Glyphosate Technical, DACO: 2.14,2.14.6 CBI
2175999	2008, Corrosiveness of Glyphosate Technical, DACO: 2.14,2.14.13 CBI
2176000	2008, UV-VIS Absorption Spectrum of Glyphosate Technical, DACO: 2.14,2.14.12 CBI
2176001	2008, Odor of Glyphosate Technical, DACO: 2.14,2.14.3 CBI

2176009 2008, Qualitative and Quantitative Profile of the test substance GLYPHOSATE  
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CBI

2176011 2008, Qualitative and Quantitative Profile of the test substance GLYPHOSATE  
TECHNICAL (Five Batch Analysis), DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4  
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2176013 2012, Synthesis of Glyphosate, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI

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CBI

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