

Evaluation Report for Category B, Subcategory B.1.2 Application

Application Number: 2007-4209
Application: Category B, Subcategory B.1.2 Application (New or Changes TGAI)
Product: KnockOut Technical Herbicide
Registration Number: 29265
Active ingredients (a.i.): 98.1% of glyphosate
PMRA Document Number: 1722440

Background

There are currently 9 registered glyphosate TGAI's in Canada. Glyphosate Technical Grade (Reg. No. 19535) owned by Monsanto is the oldest registered glyphosate TGAI and was registered in 1986.

Purpose of Application

The purpose of this application is to register a new technical source of glyphosate.

Chemistry Assessment

Common Name: Glyphosate
Chemical Name: *N*-(phosphonomethyl)glycine

Knockout Technical Herbicide has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98.1% as determined by HPLC
Density	0.909 g/mL at 22 °C
Vapour pressure	1.94×10^{-7} mm Hg (at 45 °C)
pH	2.16 (1% solution)
Solubility in water	27.7 g/L (22 °C)
n-Octanol/water partition coefficient	$\text{Log } K_{\text{OW}} = <0.3$ where 0.3 was the value of the standard used

The chemistry requirements for Knockout Technical Herbicide have been completed.

Health and Environmental Assessment

This new source of glyphosate has been found to be chemically equivalent to the registered source. Therefore, the health and environmental risk profile of KnockOut Technical Herbicide is expected to be similar to that of the original registered source.

Value Assessment

A value assessment is not required for registration of a technical grade active ingredient product.

Conclusions

The PMRA has completed an evaluation of the subject application and has determined that KnockOut Technical Herbicide is eligible for conditional registration, with registration being contingent upon fulfilling the following requirements: Submission of studies as required under product specific registration policy.

References

- PMRA # 1425041: Chemistry requirements for TGAI. 2007. DACO: 2.0, 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9.
- PMRA # 1425042: Glyphosate acid product identity and composition; description of material used to produce the product; description of manufacturing process; and discussion of impurities. 2004. DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12, 2.12.1. CBI
- PMRA # 1425043: Glyphosate 96% Technical: Preliminary analysis and enforcement analytical method. 2004. DACO: 2.13, 2.13.1, 2.13.2, 2.13.3. CBI
- PMRA # 1425044: Chemical and physical properties. 2007. DACO: 2.14, 2.14.1, 2.14.10, 2.14.11, 2.14.2, 2.14.3, 2.14.4, 2.14.5, 2.14.6, 2.14.7, 2.14.8, 2.14.9. CBI
- PMRA # 1425045: Physical and chemical properties of StrikeOut. 2006. DACO: 2.14.12, 2.15. CBI
- PMRA # 1425046: Stability. 2007. DACO: 2.14.13, 2.14.14. CBI
- PMRA # 1639244: Description of the manufacturing process of IDA Glyphosate Tech. 2008. DACO: 2.11.1, 2.11.3, 2.2. CBI
- PMRA # 1639245: Raw material of IDA Glyphosate Tech. 2008. DACO: 2.11.2. CBI
- PMRA # 1639247: Impurity profile of IDA Glyphosate Tech. 2008. DACO: 2.11.4. CBI
- PMRA # 1639248: Analysis method of Glyphosate Tech. 2008. DACO: 2.13.1. CBI
- PMRA # 1639249: Purity profile for 5 batches of Glyphosate Technical, A7190. 2008. DACO: 2.12.1, 2.13.2, 2.13.3. CBI
- PMRA # 1639250: Physical and chemical characteristics of IDA Glyphosate Technical, 95%: colour, physical state, odour, melting point/melting range, density, water solubility, solvent solubility, dissociation constant, octanol/water partition coefficient and Stability. 2008. DACO: 2.14.1, 2.14.2, 2.14.3, 2.14.4, 2.14.6, 2.14.7, 2.14.8, 2.14.10, 2.14.11, 2.14.14. CBI
- PMRA # 1639251: Phys/chem specs. 2008. DACO: 2.14.12, 2.14.5, 2.14.9

ISSN: 1911-8082

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