



Evaluation Report for Category B, Subcategory B.1.2 Application

Application Number: 2005-0984
Application: Category B, Subcategory B.1.2 Application (New or Changes TGAI)
Product: Glyphosate Technical Herbicide
Registration Number: 28882
Active ingredients (a.i.): 97.5% of glyphosate
PMRA Document Number: 1702312

Purpose of Application

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

Chemistry Assessment

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

Glyphosate Technical Herbicide has the following properties:

Property	Result
Colour and physical state	White crystalline powder
Nominal concentration	97.5%
Odour	Odourless
Specific gravity	1.705
Vapour pressure at 25°C	1.31×10^{-2} mPa
pH	4.5 – 6.8
Solubility in water at 25°C	11.6 g/L
n-Octanol/water partition coefficient (K_{ow}) at 20°C	<-3.2 (pH 2 – 5)

The chemistry requirements for Glyphosate Technical Herbicide have been completed.

Health and Environmental Assessment

The health and environmental risk profile of Glyphosate Technical Herbicide is expected to be similar to that of the original registered sources. However, due to product specific registration (data protection) considerations (see Trade Memorandum T-1-249, “Product-Specific Registration and Proprietary Rights to Data”), the applicant is required to generate the following studies and other studies equalling to 3286 value points as a condition of registration:

DACO 9.9: Aquatic vascular plants
DACO 9.9: Aquatic rooted submerged plants
DACO 9.9: Aquatic rooted emergent plants

DACO 9.8.4: Terrestrial vascular plants (seedling emergence and seedling growth test)
DACO 9.8.4: Terrestrial vascular plants (vegetative vigour test)

Value assessment

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

Conclusions

The PMRA has determined that Glyphosate 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 # 1051891 Storage stability report, DACO: 2.14.13. CBI.
- PMRA # 1161987 Glyphosate chemistry requirements, DACO: 2.1, 2.11, 2.12.1, 2.13, 2.14, 2.15, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9. CBI.
- PMRA # 1161988 2001, Studies on the impurity profile of glyphosate technical (five batch analysis), 9799, DACO: 2.13. CBI.

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