

Evaluation Report for Category B, Subcategory B.1.1 Application

Application Number: 2007-3646
Application: Register a new TGAI by same registrant
Product: Technical Ethephon
Registration Number: 19205
Active ingredients (a.i.): Ethephon
PMRA Document Number: 1594822

Background

The ownership of the product (Reg. No. 19205) was transferred to Bayer CropScience Inc. in 1987.

Purpose of Application

The purpose of this category B.1.1 is to register a new ethephon TGAI by Bayer CropScience. This new source of technical grade active ingredient “Technical Ethephon” is intended to be used in manufacturing, formulating and repackaging.

Chemistry Assessment

Common name: Ethephon
IUPAC chemical name: 2-Chloroethylphosphonic acid
CAS chemical name: (2-Chloroethyl)phosphonic acid

Technical Ethephon has the following properties:

Property	Result
Colour and physical state	Colourless solid
Nominal concentration	90.22%
Odour	Not available
Density @ 20°C	1.409 g/mL
Vapour pressure @ 20°C	<0.01 mPa
pH	1-2
Solubility in water @ 23°C	Readily soluble in water, ~1 kg/L
n-Octanol–water partition coefficient @ 25°C	log K_{ow} < -2.20

The chemistry requirements for Technical Ethephon are complete.

Health Assessments

Health assessments are not required.

Environmental Assessment

Environmental assessment is not 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 Technical Ethepon is eligible for full registration.

References

- 1416105 2007, Technical Ethepon - Product Chemistry Requirements for the Registration of a TGAI or an ISP - Product Identification and Summary, DACO: 2.1,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
- 1416106 2001, Manufacturing Process for Ethepon, with Description of Beginning Materials and Theoretical Discussion on Formation of Impurities, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI
- 1416107 2000, Preliminary Analysis of Base 250, 310029, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.3 CBI
- 1416108 2005, Position paper on the equivalence of technical material for the active substance Ethepon, DACO: 2.13.2,2.13.3 CBI

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