

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2014-0702
Application: New Source of Technical Grade Active Ingredient by a New Registrant
Product: Boric Acid
Registration Number: 32256
Active ingredients (a.i.): Boric Acid
PMRA Document Number : 2625667

Purpose of Application

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

Chemistry Assessment

Common Name: Boric acid
IUPAC* Chemical Name: Boric acid
CAS† Chemical Name: Boric acid

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Boric acid has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	99.9%
Odour	Odorless
Density	1.51 g/mL
Vapour pressure	346 Pa
Solubility in water	4.6% at 20°C (average in 5 batches) 9.58% at 50°C (average in 5 batches)
n-Octanol/water partition coefficient	Inorganic solid compound

The chemistry requirements for boric acid have been fulfilled.

Health and Environmental Assessments

The health risk profile of Boric Acid is expected to be similar to that of the originally registered sources of technical boric acid. Therefore, no new toxicology data were required.

The proposed new source of boric acid contains impurities (i.e., certain heavy metals) of concern. Although heavy metals can be an environmental concern, it is known that pesticides are not the main source of metals in the environment and there is no risk management required for metals when present as contaminants in pest control products. As long as the levels of metal contaminants in boric acid are within the range found in other products, no regulatory action is 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 Boric Acid.

References

- 2396116 2014, Category B 1.2 submission - new source of active ingredient by a new applicant Etimine USA Inc registration of boric acid (CAS No. 10043-35-3) data to support application, DACO: 2.0
- 2396118 2014, Certificate of Chemical Composition - Boric Acid, DACO: 2.16
- 2396120 2014, Results of Analysis, DACO: 2.16
- 2408431 2014, Boron Specialties Analytical Testing Report, DACO: 2.13.3
- 2456692 2014, Category B 1.2 Submission - new source of active ingredient by a new applicant Etimine USA Inc. registration of etidot-67 (di-sodium octaborate tetrahydrate, CAS No. 12280-03-4; PMRA No. 2014-0704) data to support application September 16, 2014
- 2456694 2014, Compliance Statement, DACO: 2.13
- 2456695 2014, Test for boric acid, boric oxide, disodium tetraborates, sodium perborates and crude sodium borates for industrial use, Part 3: Determination of sodium oxide and boric oxide contents and loss on ignition of disodium tetraborates, DACO: 2.13.1
- 2456698 1976, Boric acid, boric oxide and disodium tetraborates for industrial use - determination of chloride content, DACO: 2.13.1
- 2456700 2012, Standard Test Method for The Thermal Stability of Chemicals by Differential Scanning Calorimetry, DACO: 2.13.1
- 2456701 2007, Inductively Coupled Plasma-atomic emission spectrometry EPA method 6010c revision 3, DACO: 2.13.1
- 2456702 1995, OECD guideline for the testing of chemicals - 105- water solubility, DACO: 2.13.1

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