



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2013-3188
Application: B.1.1 - New Source Same Registrant
Product: Technical Grade Aluminum Phosphide
Registration Number: 22699
Active ingredients (a.i.): Aluminum Phosphide
PMRA Document Number : 2761080

Purpose of Application

The purpose of this application was to register new sources of Technical Grade Aluminum Phosphide.

Chemistry Assessment

Common Name: aluminum phosphide
IUPAC* Chemical Name: aluminium phosphide
CAS† Chemical Name: phosphinidynealuminum

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Technical Grade Aluminum Phosphide has the following properties:

Property	Result
Colour and physical state	grayish green solid
Nominal concentration	83.3%
Odour	garlic or decaying fish
Density	2.8 g/cm ³
Vapour pressure	decomposes to form phosphine gas
pH	not stable in aqueous environments
Solubility in water	insoluble – reacts with water to form phosphine gas
n-Octanol/water partition coefficient	not applicable – inorganic salt

The required chemistry data for Technical Grade Aluminum Phosphide have been provided, reviewed, and found to be acceptable.

Health, Environmental and Value Assessment

Health, environmental and value assessments were not required for this application.

Conclusion

The PMRA has reviewed the information provided in support of the new source of Technical Grade Aluminum Phosphide. Based on the results of this review, the new source of Technical Grade Aluminum Phosphide is acceptable for registration.

References

- 2556855 2015, n/a, DACO: 2.11 CBI
- 2693650 2016, n/a, DACO: 2.11.3
- 2610796 2016, NA, DACO: 2.11.1,2.11.3 CBI
- 2608902 2015, Five Batches Analysis of Aluminium Phosphide Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
- 2714604 2016, FIVE BATCHES ANALYSIS OF ALUNIMUM PHOSPHIDE TECHNICAL ([CBI REMOVED]), DACO: 2.13.4
- 2714603 2016, FIVE BATCHS ANALYSIS OF OF ALUMINUM PHOSPHIDE TECHNICAL ([CBI REMOVED]), DACO: 2.13.4

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