

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2014-5389

Application: B.1.2 - New Source by New Registrant

Product: Sunzon Technical Grade Aluminum Phosphide

Registration Number: 32729

Active ingredients (a.i.): Aluminum Phosphide

PMRA Document Number : 2761087

Purpose of Application

The purpose of this application was to register new sources of manufacture of Sunzon 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

Sunzon Technical Grade Aluminum Phosphide has the following properties:

Property	Result
Colour and physical state	grayish green solid
Nominal concentration	82.5%
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 Sunzon Technical Grade Aluminum Phosphide have been provided, reviewed, and found to be acceptable.

Health Assessments

The toxicology profile of the new sources of aluminum phosphide technical is expected to be similar to that of the currently registered source; therefore, there are no additional toxicological concerns.

Environmental Assessment

The use of the new sources is not expected to pose additional environmental concerns when compared to the registered products.

Value Assessment

Value assessment was not required for this application

Conclusion

The PMRA has reviewed information provided in support of the new sources of manufacture of Sunzon Technical Grade Aluminum Phosphide. Based on the results of this review, the new sources of manufacture of Sunzon Technical Grade Aluminum Phosphide are acceptable for full registration.

References

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|---------|--|
| 2693655 | 2016, n/a, DACO: 2.11.3 |
| 2675302 | 2016, five batches analysis of aluminum Phosphide Technical , DACO: 2.13.1 |
| 2680659 | 2016, 5 batch analysis of Tec ALP [CBI removed] Factory, DACO: 2.13.1 |

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