

Evaluation Report for Category B, Subcategory B.1.1, B.1.3 Application

Application Number: 2011-5847
Application: New Technical Grade Active Ingredient
Product: GF-Chlore 65G
Registration Number: 31009
Active ingredients (a.i.): Available chlorine present as calcium hypochlorite
PMRA Document Number: 2263946

Background

Available chlorine present as calcium hypochlorite is used as an active ingredient in a variety of pest control product, including those used for swimming pools and spas, wastewater treatment, and recirculating cooling towers and heat exchange systems.

Purpose of Application

The purpose of this application was to register a new technical product, GF-Chlore 65G, based on the precedent products, GF-Chlore 70T (registration number 28398) and GF-Chlore 70G (registration number 28397).

Chemistry Assessment

Common Name: calcium hypochlorite
IUPAC Chemical Name: calcium hypochlorite
CAS Chemical Name: hypochlorous acid, calcium salt

GF-Chlore 65G has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	69.64% available chlorine present as calcium hypochlorite
Odour	Chlorine-like odour
Density	1.0-1.05 g/cm ³ at 25°C
Vapour pressure	Not applicable
pH	8-11 (1% solution)

Property	Result
Solubility in water	21.5 g/100 mL at 0°C 23.4 g/100 mL at 40°C
n-Octanol/water partition coefficient (K_{ow})	Not applicable

The chemistry requirements for GF-Chlore 65G have been completed.

Health Assessments

The formulation of GF-Chlore 65G is not expected to present a more hazardous toxicology profile than that of similar, currently registered products. The hazard labeling recommended for GF-Chlore 65G is deemed to be informative of any acute toxicity that may arise following the use of this product.

Environmental and Value Assessments

Environmental and value assessments were not required for this application.

Conclusion

The PMRA has reviewed the information provided and has determined that GF-Chlore 65G is acceptable for registration.

References

PMRA Document Number	Reference
2134922	GF Chlore Technical Data, DACO: 2.0,2.1,2.10,2.11.1,2.11.2,2.11.3,2.11.4, 2.12.1,2.13.1,2.13.2,2.13.3,2.14.1,2.14.13,2.14.14,2.14.2,2.14.3,2.14.4,2.14.5, 2.14.6,2.14.7,2.2,2.3, 2.4,2.5,2.6,2.7,2.8,2.9 CBI
2236987	2012, Methodology/Validation, DACO: 2.13.1 CBI
2236988	2012, Batch Data, DACO: 2.13.3 CBI
2240875	2012, Impurities of Toxicological Concern, DACO: 2.13.4
2254701	2012, Methodology/Validation, DACO: 2.13.1 CBI
2254702	2012, Batch data, DACO: 2.13.3 CBI

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