

Evaluation Report for Category B, Subcategory 1.1, 1.3 Application

Application Number: 2013-5020
Application: New / Changes TGAI or ISP Prod Chemistry-New Source(site) same registrant
 New / Changes TGAI or ISP Prod Chemistry-Specifications
Product: Champion Wet Cake Technical
Registration Number: 31374
Active ingredients (a.i.): Copper, present as copper hydroxide
PMRA Document Number: 2411882

Purpose of Application

The purpose of this application was to register a new source of copper (II) hydroxide TGAI by an existing registrant. The precedent is a dry TGAI manufactured at the same location; the new TGAI is a wet cake.

Chemistry Assessment

Common Name: Copper (II) hydroxide
 Also expressed as copper, present as copper hydroxide
IUPAC* Chemical Name: copper(II) hydroxide
 or copper(2+) hydroxide
 or cupric hydroxide
CAS† Chemical Name: copper hydroxide (Cu(OH)₂)

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Champion Wet Cake Technical has the following properties:

Property	Result
Colour and physical state	Blue-green clay-like solid
Nominal concentration	32.5% as copper
Odour	Mild
Density	1.68 g/cm ³
Vapour pressure	1 × 10 ⁻⁶ mPa for pure copper hydroxide
pH	9.71 for 1% dispersion
Solubility in water	5.06 × 10 ⁻⁴ g/L
n-Octanol/water partition coefficient	2.75 (pH 7.0, 20°C); logP = 0.44 (estimated)

The chemistry requirements for Champion Wet Cake Technical have been fulfilled.

Health Assessment

Champion Wet Cake Technical is considered to be of low acute toxicity via the oral and dermal routes and of slight acute toxicity via the inhalation route of exposure. It is corrosive to the eye, mildly irritating to the skin and is not considered to be a dermal sensitizer.

Environmental Assessment

Champion Wet Cake Technical is a technical grade active ingredient with copper as copper hydroxide (32.5%) and mixed with water (50:50 w/w). It is the non-dehydrated form of a currently registered technical grade active ingredient product, Champion Technical (Reg. No. 24670). It is intended for manufacturing, formulating or repackaging as a pest control product. Champion Wet Cake Technical is not expected to pose any additional environmental concerns compared to the precedent registered TGAIs.

Value Assessment

A value assessment was not required for this application.

Conclusion

The PMRA has completed an assessment and is able to support the registration of the new end-use product, Champion Wet Cake Technical.

References

PMRA Reference

Doc. No.

2345648	2013, Champion WC Tech-Summary, DACO: 2.1,2.12.1,2.13.3,2.14.10,2.14.11,2.14.12,2.14.13,2.14.4,2.14.5,2.14.7,2.14.8,2.14.9
2345649	2012, Final Report for: Preliminary Analysis of Copper Hydroxide Wet Cake, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
2345650	2013, Copper Hydroxide Wet Cake, NUP-12070 Product Identity and Process, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13,2.3,2.4,2.5,2.6,2.7,2.8,2.9,3.4.1 CBI
2345651	2013, Final Report for: Physical and Chemical Characteristics of NUP-12070, DACO: 2.14.1,2.14.15,2.14.2,2.14.3,2.14.6,830.7000
2345652	2013, Final Report for: Stability to Normal and Elevated Temperatures of NUP-12070, DACO: 2.14.13
2407016	2014, [CBI REMOVED] Analysis_14MAR2014, DACO: 2.13.4
1676757	US EPA Reregistration Eligibility Decision (RED) for Coppers (2006)
230387	US EPA Reregistration Eligibility Decision (RED) for Coppers – Revised (2009)

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