

Evaluation Report for Category B, Subcategories 1.1, 1.3 Application

Application Number: 2020-1080

Application: Changes to TGAI Product Chemistry-New source, same registrant;

Specifications

Product: Kocide Copper Hydroxide Technical

Registration Number: 27503

Active ingredient (a.i.): copper present as copper hydroxide

PMRA Document Number: 3216273

Purpose of Application

The purpose of this application was to add a new manufacturing process at the same manufacturing site to the registered product Kocide Copper Hydroxide Technical.

Chemistry Assessment

Common Name: Copper hydroxide

IUPAC* Chemical Name: Copper hydroxide, copper (II) hydroxide, copper (2+) hydroxide,

cupric hydroxide

CAS† Chemical Name: Copper hydroxide [Cu(OH)₂]

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Kocide Copper Hydroxide Technical has the following properties:

Property	Result
Colour and physical state	Blue solid (powder)
Nominal concentration	61% (copper present as copper hydroxide)
Odour	Slight ammonia odour
Density	$0.41 - 0.78 \text{ g/cm}^3$
Vapour pressure	N/A
рН	6.0 - 8.5
Solubility in water	$5.06 \times 10^{-4} \text{ g/L (pH 6.5)}$
n-Octanol/water partition coefficient	$log K_{ow} = 0.44$ (estimated)



The required chemistry data for Kocide Copper Hydroxide Technical have been provided, reviewed, and found to be acceptable.

Health, Environmental and Value Assessments

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

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to register the new manufacturing process for Kocide Copper Hydroxide Technical.

References

PMRA	
Document	
Number	Reference
3103810	2020, Kocide Cupric Hydroxide Fungicide Technical Grade Copper Hydroxide (Alternate Process) Manufacturing Description And Formation Of Impurities, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI
3103811	2020, Copper Hydroxide Technical: Complete Analysis of Five Batch Samples, DACO: 2.13.3 CBI
3103812	2020, Copper Hydroxide Technical: Validation of the Analytical Method for the Determination of the [CBI REMOVED] Content, DACO: 2.13.1 CBI
3103813	2015, Copper Hydroxide Technical: Validation of the Analytical Method for the Determination of [CBI REMOVED] Content, DACO: 2.13.1 CBI
3103814	2015, Copper Hydroxide Technical: Validation of the Analytical Method for the Determination of [CBI REMOVED] Content, DACO: 2.13.1 CBI
3103815	2015, Copper Hydroxide Technical: Validation of the Analytical Method for the Determination of [CBI REMOVED] Content, DACO: 2.13.1 CBI
3103816	2014, Technical Copper Hydroxide: Validation of the Analytical Method for the Determination of The Relevant Impurities Content [CBI REMOVED], DACO: 2.13.1 CBI
3103817	2014, Technical Copper Hydroxide: Validation of the Analytical Method for the Determination of The Active Ingredient Content, DACO: 2.13.1 CBI
3103818	2017, Copper Hydroxide Technical: Validation of the Analytical Method for the Determination of the Metallic Impurities Content [CBI REMOVED], DACO: 2.13.1 CBI
3103819	2020, Copper Hydroxide Technical: Spectroscopic Characterisation of Five Batch Samples, DACO: 2.13.1 CBI
3179691	2020, Commercial Batch Confirmation, DACO: 2.13.3 CBI

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