

## Evaluation Report for Category B, Subcategory 1.3 Application

**Application Number:** 2012-1737  
**Application:** Changes TGAI Prod Chemistry-Specifications  
**Product:** Kocide Copper Hydroxide Technical  
**Registration Number:** 27503  
**Active ingredients (a.i.):** Copper as Elemental (Present as Copper Hydroxide)  
**PMRA Document Number :** 2271845

### Purpose of Application

The purpose of this application was to update the batch data and to amend the formulation of the technical 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)<sub>2</sub>]

Kocide Copper Hydroxide Technical has the following properties:

Property	Result
Colour and physical state	Blue solid
Nominal concentration	61%
Odour	Slight ammonia odour
Density at 20°C	0.41-0.78 g/cm <sup>3</sup>
Vapour pressure at 25°C	Not required as the substance is a salt.
pH	6.0-8.5
Solubility in water	5.06 × 10 <sup>-4</sup> g/L
n-Octanol/water partition coefficient	LogK <sub>ow</sub> = 0.44

The chemistry requirements for Kocide Copper Hydroxide Technical have been completed.

### Health Assessments

The changes in the specifications of this product do not alter the toxicological profile. No toxicological data were submitted or required.

## **Environmental Assessment**

Additional environmental data are not required to support the registration of the new product formulation for Kocide Copper Hydroxide Technical. Registration of the new product formulation is not expected to contribute significantly to the overall environmental loading.

## **Value Assessment**

A value assessment was not required for this application.

## **Conclusion**

The PMRA has conducted a review of the submitted information and has determined that the batch data and amendments to the formulation of Kocide Copper Hydroxide Technical are acceptable.

## References

<b>PMRA No.</b>	<b>Title</b>
2195476	2008, Technical Grade Active Ingredient Copper (II) Hydroxide Analysis and Certification of Product Ingredients in Support of Registration of Dupont Copper (II) Hydroxide Technical, DACO: 2.0,2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12,2.12.1,2.13,2.13.1,2.13.2
2195477	2008, Technical Grade Active Ingredient Copper (II) Hydroxide Analysis and Certification of Product Ingredients in Support Of Registration of Dupont Copper (II) Hydroxide Technical, DACO: 2.0,2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12,2.12.1,2.13,2.13.1,2.13.2
2195478	2006, Technical Grade Copper Hydroxide Manufacturing Description and Formation of Impurities, DACO: 2.0,2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12,2.12.1,2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
2195479	2006, Technical Grade Copper Hydroxide Manufacturing Description and Formation of Impurities, DACO: 2.0,2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12,2.12.1,2.13,2.13.1,2.13.2,2.13.3,2.13.4

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