

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

**Application Number:** 2015-5107  
**Application:** B.1.1 - New Source Same Registrant  
**Product:** Blue Viking - Technical  
**Registration Number:** 18212  
**Active ingredients (a.i.):** Copper (Present as Copper Sulfate Pentahydrate)  
**PMRA Document Number:** 2794351

### Purpose of Application

The purpose of the application was to add a new source of Blue Viking - Technical.

### Chemistry Assessment

**Common Name:** Copper sulfate pentahydrate  
**IUPAC\* Chemical Name:** Copper (II) sulfate pentahydrate  
**CAS† Chemical Name:** Sulfuric acid copper(2+) salt (1:1), pentahydrate

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Blue Viking – Technical has the following properties:

Property	Result
Colour and physical state	Blue solid
Nominal concentration	25.2% copper (present as copper sulfate pentahydrate)
Odour	No detectable odour
Density	2.286 g/cm <sup>3</sup> at 20°C
Vapour pressure	N/A
pH	4.2-4.8 (1% aqueous dispersion)
Solubility in water	316 g/L (0°C)
n-Octanol/water partition coefficient	N/A (insoluble in octanol)

The required chemistry data for Blue Viking – Technical have been provided, reviewed, and found to be acceptable.

### **Health Assessments**

The health risk profile of Blue Viking Technical is expected to be similar to that of the originally registered source of copper sulfate pentahydrate. Therefore, no new toxicology data were required.

### **Environmental Assessment**

The use of the new source is not expected to increase environmental risk when compared to other copper TGAs registered for similar use patterns.

### **Value Assessment**

Value assessment was not required for this application.

### **Conclusion**

The PMRA has reviewed the information provided in support of the addition a new source of Blue Viking - Technical. Based on the results of this review, the new source of Blue Viking - Technical is acceptable.

## References

- 2567010 2010, Product: Copper Sulfate Crystals MUP, EPA File Symbol 56576-E Physical Properties, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.4 CBI
- 2567011 2015, Five Batch Analysis Cuprose, S.A. DE C. V. Copper Sulfate Pentahydrate, DACO: 2.13.3 CBI
- 2567012 1994, Copper Sulfate Pentahydrate: Physical and Chemical Characteristics, DACO: 2.14.1,2.14.10,2.14.11,2.14.13,2.14.15,2.14.2,2.14.3,2.14.4,2.14.5,2.14.6,2.14.7,2.14.8,2.14.9,830.7000 CBI
- 2567013 2008, Storage Stability and Corrosion Characteristics of Copper Sulfate Pentahydrate, DACO: 2.14.14 CBI
- 2666089 2016, Manufacturing Process, DACO: 2.11,2.11.1,2.11.2,2.11.4 CBI
- 2666091 2016, Batch Data for Impurities of Concern, DACO: 2.13.4 CBI

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