



## Evaluation Report for Category B, Subcategory 1.3 Application

**Application Number:** 2014-6053  
**Application:** Changes to TGAI Product Chemistry-Specifications  
**Product:** BTC 818-80% Concentrated Germicide  
**Registration Number:** 25427  
**Active ingredients (a.i.):** octyl decyl dimethyl ammonium chloride,  
 dioctyl dimethyl ammonium chloride,  
 didecyl dimethyl ammonium chloride  
**PMRA Document Number :** 2596452

### Purpose of Application

The purpose of this application was to amend the guarantee of the product, BTC 818-80% Concentrated Germicide.

### Chemistry Assessment

**Common Names:** Octyl decyl dimethyl ammonium chloride  
 Dioctyl dimethyl ammonium chloride  
 Didecyl dimethyl ammonium chloride  
**IUPAC\* Chemical Names:** Not available  
**CAS† Chemical Names:** 1-Decanaminium, N,N-dimethyl-N-octyl-, chloride (1:1)  
 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (1:1)  
 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1)

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

BTC 818-80% Concentrated Germicide has the following properties:

Property	Result
Colour and physical state	Light straw to dark amber
Nominal concentration	Octyl decyl dimethyl ammonium chloride: 41% Dioctyl dimethyl ammonium chloride: 19% Didecyl dimethyl ammonium chloride: 20%
Odour	Alcoholic
Density	0.89 g/mL
Vapour pressure	Expected to be between 2.34 kPa and 5.95 kPa

Property	Result
pH	6.5 to 8.5
Solubility in water	Completely soluble
n-Octanol/water partition coefficient	Octyl decyl dimethyl ammonium chloride: 1.54 Dioctyl dimethyl ammonium chloride: 0.28 Didecyl dimethyl ammonium chloride: 2.56

The required chemistry data for BTC 818-80% Concentrated Germicide 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 to amend the product guarantee

### **Conclusion**

Following review of the application, the guarantee for BTC 818-80% Concentrated Germicide was amended.

### **References**

#### **PMRA**

#### **Document**

<b>Number</b>	<b>Reference</b>
2486283	2014, General Information, DACO: 2.1,2.2,2.3 CBI
2486284	2014, Re-examination of BTC 818-80% Carbon Chainlength Distribution, DACO: 2.13.3 CBI
2507845	2015, Canada PMRA; Re-examination of additional Lots of BTC 818-80% for Carbon Chainlength Distribution, DACO: 2.12.1,2.13.1,2.13.3 CBI
2590341	2015, Carbon chainlength Chromatograms, DACO: 2.13 CBI
2590340	2015, Manufacturing Dates, DACO: 2.13 CBI
2507843	2015, Registrant/Manufacturers info, DACO: 2.1,2.2,2.3 CBI

ISSN: 1911-8082

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