

## Evaluation Report for Category B, Subcategory B.1.1,B.1.3,B.2.4 Application

**Application Number:** 2015-4327  
**Application:** New TGAI Product Chemistry-New source (site)/same registrant, specifications, and proportion of formulators  
**Product:** BTC 8358 LP  
**Registration Number:** 32601  
**Active ingredients (a.i.):** n-Alkyl (40% C<sub>12</sub>, 50% C<sub>14</sub>, 10% C<sub>16</sub>) dimethyl benzyl ammonium chloride  
**PMRA Document Number:** 2689528

### Background

The active ingredient in the subject product is n-Alkyl (40% C<sub>12</sub>, 50% C<sub>14</sub>, 10% C<sub>16</sub>) dimethyl benzyl ammonium chloride, which is used in various commercial and domestic products including algaecides, disinfectants, and sanitizers.

### Purpose of Application

The purpose of this application was to register the new technical active product BTC 8358 LP.

### Chemistry Assessment

**Common Name:** n-Alkyl (40% C<sub>12</sub>, 50% C<sub>14</sub>, 10% C<sub>16</sub>) dimethyl benzyl ammonium chloride  
**IUPAC\* Chemical Name:** n-Alkyl (40% C<sub>12</sub>, 50% C<sub>14</sub>, 10% C<sub>16</sub>) dimethyl benzyl ammonium chloride  
**CAS† Chemical Name:** Quaternary ammonium compounds, benzyl alkyl C<sub>12-16</sub> dimethyl, chlorides

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

BTC 8358 LP has the following properties:

Property	Result
Colour and physical state	White liquid
Nominal concentration	80.0%
Odour	Ethanol-like
Density	0.9362 g/mL

<b>Property</b>	<b>Result</b>
Vapour pressure	Not applicable (Ionic compound)
pH	8.5 (10% solution)
Solubility in water	Soluble
n-Octanol/water partition coefficient	Ionic compound, not applicable

The required chemistry data for BTC 8358 LP 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 since neither new uses nor new claims are being registered for tebuconazole.

### **Conclusion**

The PMRA has completed an assessment of the available information and has determined that the registration of BTC 8358 LP can be supported.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
2560422	2015, Applicant/Manufacture info, DACO: 2.1,2.2,2.3 CBI
2581327	2015, Density Test (Method), DACO: 2.14.6 CBI
2581328	2015, pH Determination (method), DACO: 2.14.15,830.7000 CBI
2667338	2016, Product Chemistry Testing for 5 Lot Preliminary Analysis, DACO: 2.13.3 CBI
2667339	2008, Product Chemistry Testing for the Determination of Physical State, Flash Point, pH, Density, Viscosity, Odor and Color, DACO: 2.14.1,2.14.15,2.14.2,2.14.3,2.14.6,830.7000 CBI
2681754	2016, Manufacturing dates and locations, DACO: 2.13.3 CBI

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