

## Evaluation Report for Category B, Subcategory 1.1 and 1.3 Application

**Application Number:** 2009-5442  
**Application:** B.1.1-Changes to TGAI Product Chemistry-New Source  
 B.1.3-Changes to TGAI Product Chemistry-Specifications  
**Product:** Stepan BTC 8358 Concentrated Germicide  
**Registration Number:** 21339  
**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 (QAC)  
**PMRA Document Number English PDF:** 2018079

### Purpose of Application

The purpose of this application was to register a new source, amend the guarantee and to fulfil the data requirements triggered by the re-evaluation decision of this active ingredient.

### Chemistry Assessment

**Accepted Name:** n-Alkyl (40% C<sub>12</sub>, 50% C<sub>14</sub>, 10% C<sub>16</sub>) dimethyl benzyl ammonium chloride  
**Chemical Name:** n-Alkyl (40% C<sub>12</sub>, 50% C<sub>14</sub>, 10% C<sub>16</sub>) dimethyl benzyl ammonium chloride

Stepan BTC 8358 Concentrated Germicide has the following properties:

Property	Result
Colour and physical state	White liquid
Nominal concentration	80.0%
Odour	Ethanol-like
Density	0.9362 g/mL
Vapour pressure	N/A
pH	8.5 (10% solution)
Solubility in water	Soluble in water
n-Octanol/water partition coefficient	N/A

The chemistry requirements for Stepan BTC 8358 Concentrated Germicide have been completed.

### Health, Environmental and Value Assessment

A health, environmental and value assessment were not required for this application.

## Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support for the product, Stepan BTC 8358 Concentrated Germicide, and has found the information sufficient to register a new source, amend the guarantee and to fulfil the data requirements triggered by the re-evaluation decision of this active ingredient..

## References

<i>PMRA Number</i>	<i>Title</i>
1517999	1988, Technical Chemistry file QAC-SPN-1 BTC 8358, DACO: 2.99 CBI (PCP # 21339)
1841612	2009, Applicant/Manufacture info, DACO: 2.1, 2.2 CBI
1841614	2009, Product Chemistry Data BTC 8358, DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.13.1 CBI
1841615	2009, Product Chemistry Testing for 5 Lot Preliminary Analysis, DACO: 2.13.3 CBI
1841616	2008, Product Chemistry Testing for the Determination of Physical State, Flash Point, pH, Density, Viscosity, Odor and Color, DACO: 2.14.1, 2.14.2, 2.14.3, 2.14.6 CBI
1841617	2008, Product Chemistry Testing for the Determination of Storage Stability and Corrosion Characteristics, DACO: 2.14.13, 2.14.14 CBI
1895178	2010, Clarification Responses, DACO: 2.11.3, 2.13.3, 2.14 CBI
1905260	2010, response from Stepan regarding the level of benzyl chloride, DACO: 2.13.4 CBI

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